



NISIMS Technical Guide

2019



Treated (left) and untreated (right) Phragmites australis sites, Cape Cod National Seashore. NPS photo.

Contents

	Page
1. Introduction to NISIMS	1
2. NISIMS Field Geodatabase	3
2.1 General Instructions	3
2.2 Field Geodatabase Edits	4
2.2.1 Adding Field	4
2.2.2 Copying Features	10
3. NISIMS Data Dictionary	16
3.1 General Instructions	16
3.2 Preparing and Uploading the Data Dictionary	17
3.3 Collecting Data in the Field	29
3.4 Downloading Data from the GPS Unit	35
3.5 Exporting Data to a File Geodatabase	38
4. NISIMS in Collector for ArcGIS	49
4.1 General Instructions	49
4.2 Creating a Group in ArcGIS Online	50
4.3 Adding Feature Classes to Collector	57
4.4 Collecting Data in the Field with Collector	82
4.5 Exporting NISIMS Layers from ArcGIS Online	95
5. NISIMS Web Interface	101
5.1 Uploading Data	101
5.2 Quality Checking Data	107
5.3 Accessing Reports	112
5.4 Adding Users	121
Appendix A. NISIMS Field Geodatabase Diagram	126
Appendix B. NISIMS Data Dictionary Structure	128
Appendix C. Links to NISIMS Files and Documents	131

1. Introduction to NISIMS

The National Invasive Species Information Management System (NISIMS) is the NPS standard invasive species data management tool. NISIMS was originally created to be a comprehensive tool by the Bureau of Land Management (BLM) to standardize the collection of invasive species data. NPS adopted the BLM's data management system for invasive species to standardize the collection and management of exotic plant data collected by the Exotic Plant Management Teams (EPMT). NISIMS was identified as an appropriate replacement for the Alien Plant Control and Monitoring database (APCAM), the previous exotic plant data management system, because it requires the input of data identified as important to collect by NPS, and also includes a spatial component that allows for the mapping and further analysis of infestations. Further, NISIMS was chosen due to its potential for standardizing exotic plant data management across DOI agencies.

NISIMS maintains five categories of exotic species management spatial data: weed survey, weed infestation, proposed treatment, treatment, and photo location data. Each of the five categories of location data are linked to attribute data that provide more detailed information related to each location.

- **Weed survey** data is collected as part of an exotic plant surveillance program. The results of surveillance for this category are included whether an exotic plant species was detected or not.
- **Weed infestation** data is collected when a species infestation has been identified. Data maintained in this category include those infestations which have been identified as part of a formal monitoring program and those infestations identified incidentally. If monitoring results in no finding of a species, record it as a weed survey.
- **Proposed treatment** data is collected as part of the formal treatment proposal process. Data in this category include information that is important to know prior to treatment and the steps that were taken in obtaining proposal approval.
- **Treatment** data is collected during the treatment and control of an infestation in the field. Data in this category include detailed information on the methods used to control and eradicate exotic plants at an infestation location. Treatment component data is further split into six components: biological, chemical, fire, manual, mechanical, restoration, and revegetation.
- **Photo location** data is collected to identify the locations where photos were taken in the field. Photo locations are not spatially related to the other types of data; however, may be mapped to identify which infestation the photos represent.

The NISIMS Technical User Guide describes the tools and applications that are used to collect and upload NISIMS data. This guide describes three methods for creating data that may be uploaded to the NISIMS Spatial Database Engine (SDE) geodatabase, the central database that contains invasive plants data for the NPS Invasive Plants Program. Instructions show you how to manually add data to the NISIMS Field Geodatabase, and how to collect GPS data using the NISIMS Data Dictionary and Collector for ArcGIS®. Further instructions are included for uploading data to and using the NISIMS Website.

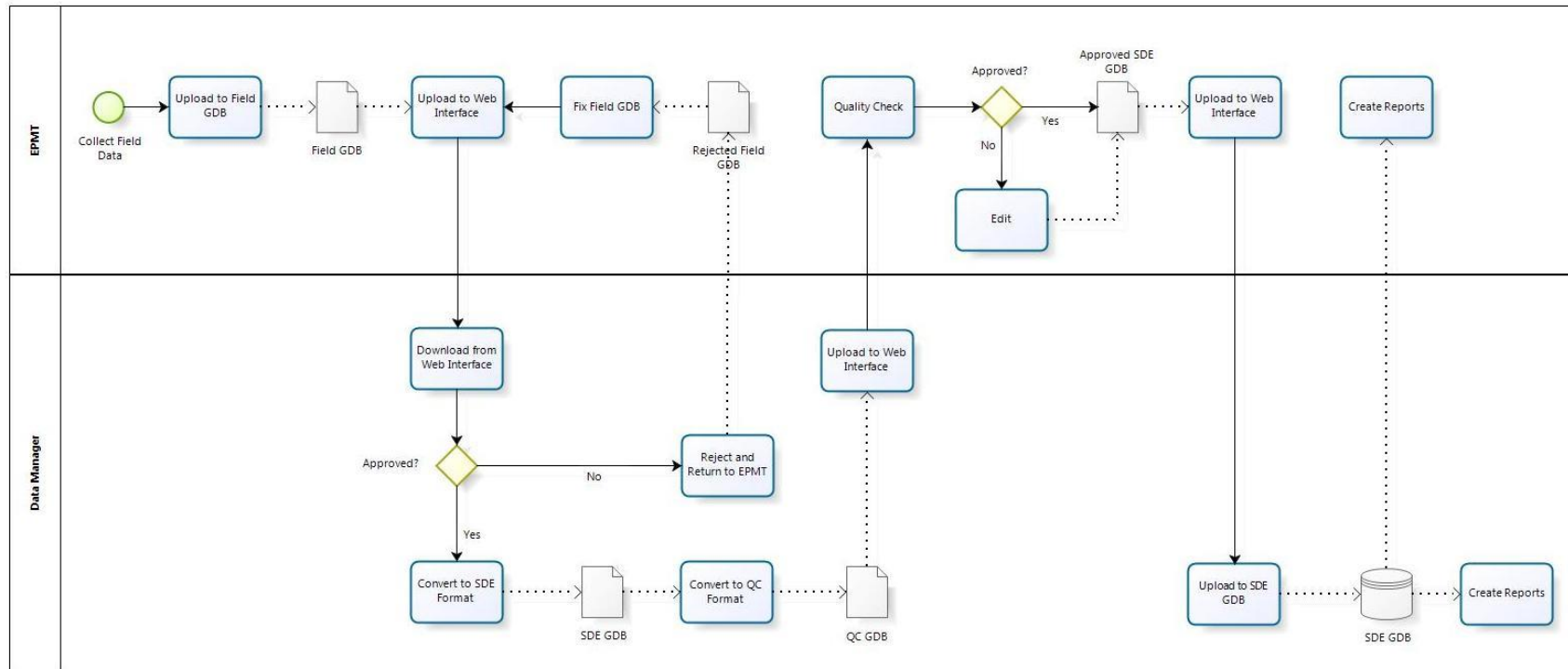


Diagram of NISIMS workflow

2. NISIMS Field Geodatabase

2.1 General Instructions

The NISIMS field geodatabase was created to expedite the transition of exotic plant data from the field collection stage to the final SDE geodatabase. The field geodatabase contains four feature datasets and 34 feature classes. Feature classes within the ProposedTreatmentData, TreatmentData, WeedInfestationData, and WeedSurveyData feature datasets have been created to maintain point, line, and polygon data. Photo locations are only collected as points, and maintained in the PhotoLocation feature class. A diagram of the NISIMS Field Geodatabase can be found in Appendix A.

Domains have been created within the geodatabase to standardize the entry of data within fields. If creating/editing data in ArcMap, these values may be selected from a drop-down list. Other values may be added if data is directly uploaded from the GPS unit; however, only those values within the domains should be used. If it is necessary to add other values not found in the domain, please contact the WASO data manager.

In order to ensure that data from the field geodatabase is successfully uploaded to the SDE geodatabase, some general instructions are provided:

- As it is currently being supplied, the field geodatabase is in the personal geodatabase format (.mdb); however, you may also copy all files over to a file geodatabase if you would rather use this format. Just be sure to maintain the same structure that is found in the personal geodatabase (i.e. maintain feature classes in the feature datasets).
- The feature datasets and feature classes have been assigned a geographic coordinate system of NAD 1983; however, you may maintain data in your preferred coordinate system. It will be converted by the WASO data manager prior to uploading to the SDE geodatabase.
- You may delete any feature classes you are not using from the geodatabase.
- Do not rename the feature classes that you are using.
- Do not rename any of the fields from the feature classes you are using.
- If you wish to add a value to any of the domains in the geodatabase, please contact the WASO data manager.
- If you need help modifying the field geodatabase for your team, contact the WASO data manager.

2.2 Field Geodatabase Edits

You may find that you need to add fields to the NISIMS Field Geodatabase in order to list more species or herbicides to a feature. Such edits to the field geodatabase are permitted so long as naming conventions are followed (see Section 2.4 or Appendix C). You may also copy features in order to show that more than one event was conducted at a site. Instructions for how to do this in ArcGIS follow.

2.2.1 Adding Fields

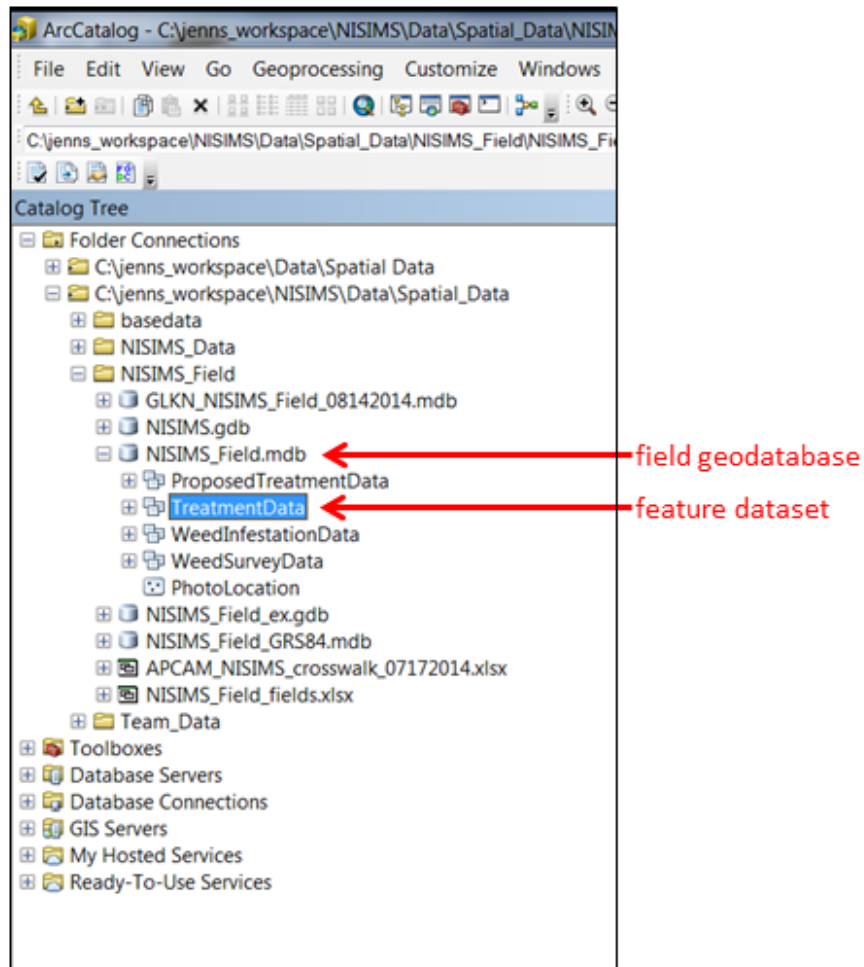
Some of the feature classes in the field geodatabase allow for multiple values to be collected for each feature. For instance, more than one species may be linked to a single feature in the treatment component feature classes. In order to capture this data, you may add additional fields with the field name plus a number added indicating that it is an additional species (e.g. SCNTFC_CD2, SCNTFC_CD3, etc.). Additional fields that are related to the added field must be added, as well. For instance, the estimated cover rate is required for each species added to the treatment component feature classes (e.g. EST_CVR_RT2, EST_CVR_RT3, etc.).

Additional fields have already been added to the feature classes in the field geodatabase to help guide you in what is required. Fields beyond those already included may be added using the following instructions:

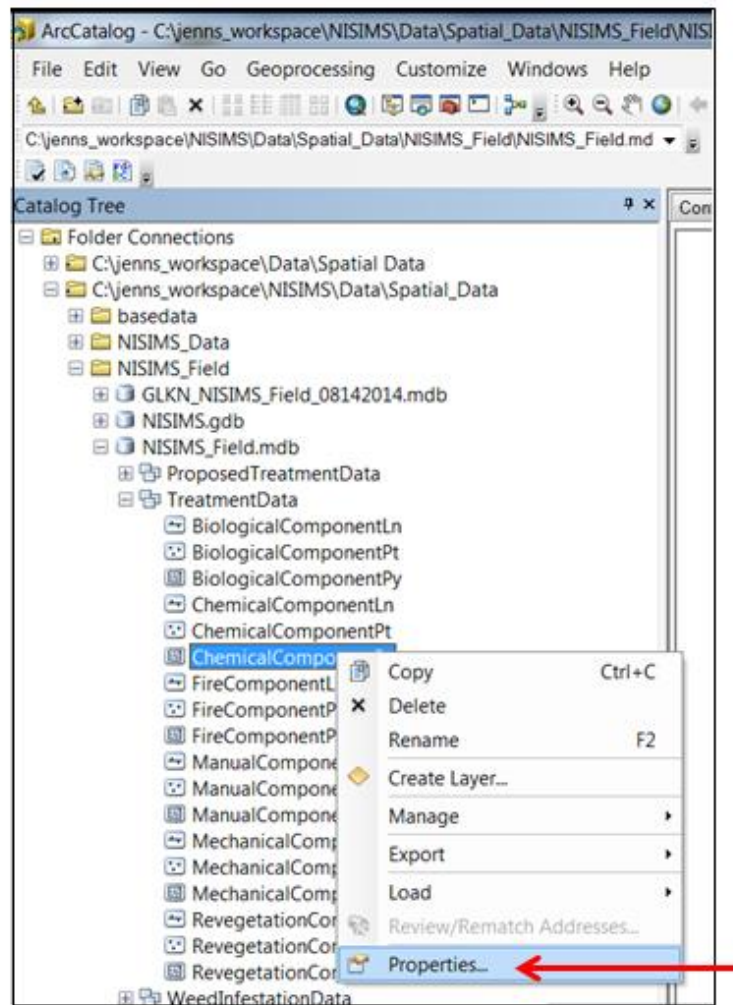
Instructions: Add a second herbicide to the ChemicalTreatmentPy feature class.

Step 1. Open ArcCatalog.

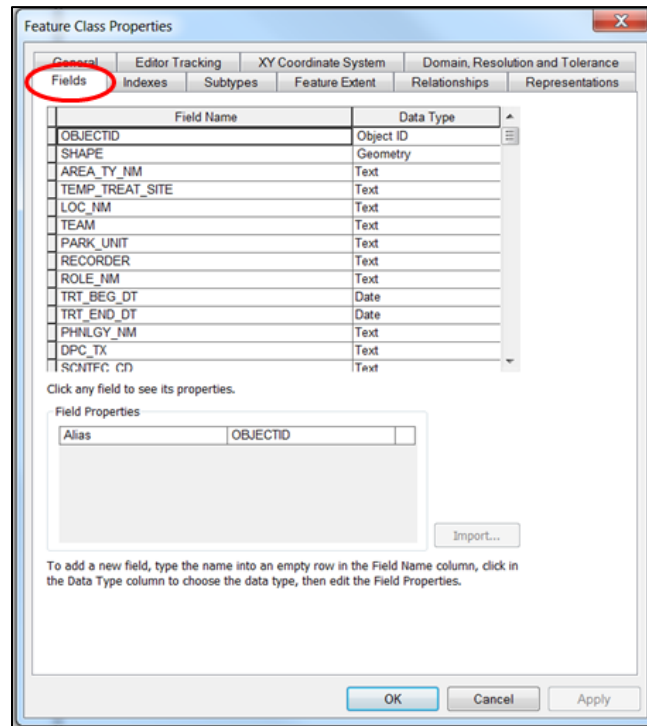
Step 2. Navigate to the TreatmentData dataset within your field geodatabase.



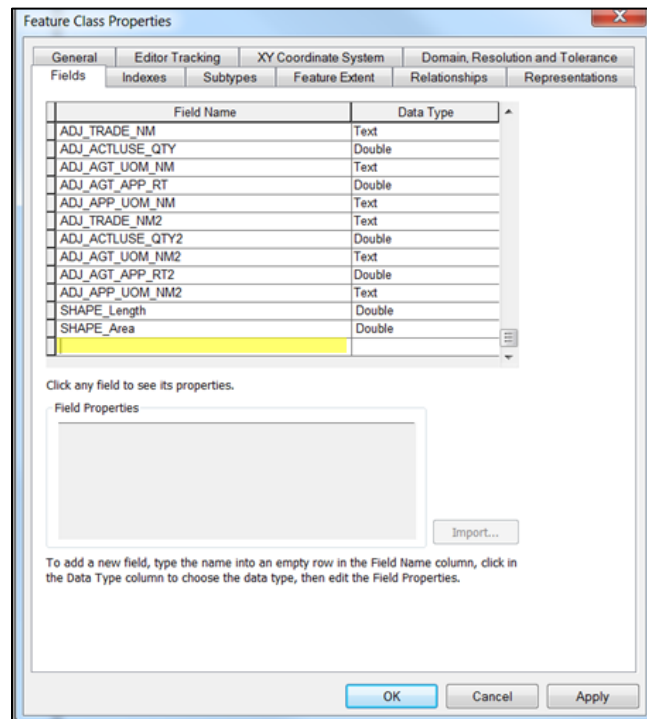
Step 3. Right click on ChemicalTreatmentPy and select Properties.



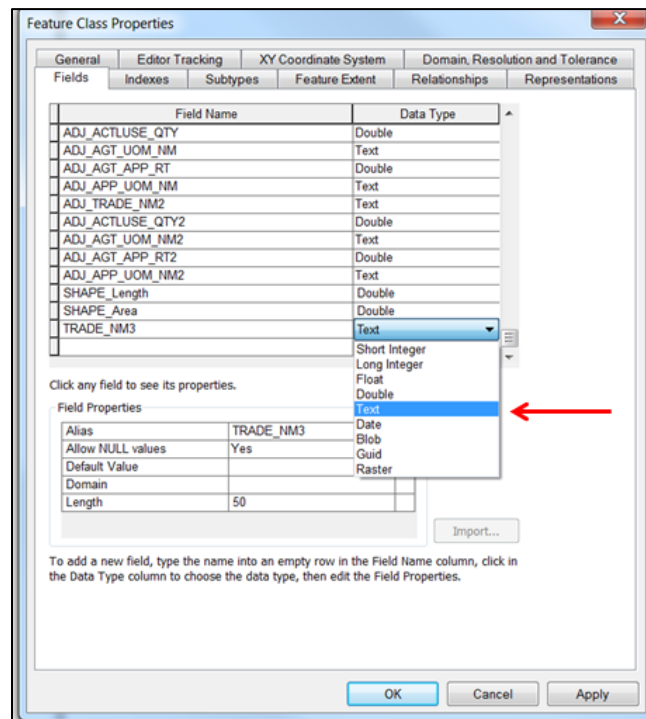
Step 4. Select the Fields tab in the Properties window.



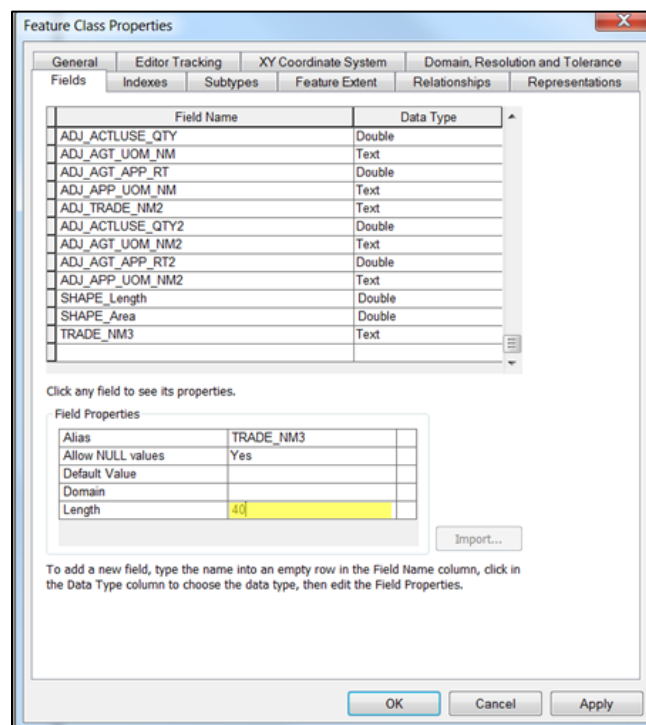
Step 5. Scroll to the bottom of the fields list and click in an empty box under the “Field Name” heading. Type TRADE_NM3.



Step 6. Click in the box under the “Data Type” heading, and select TEXT.



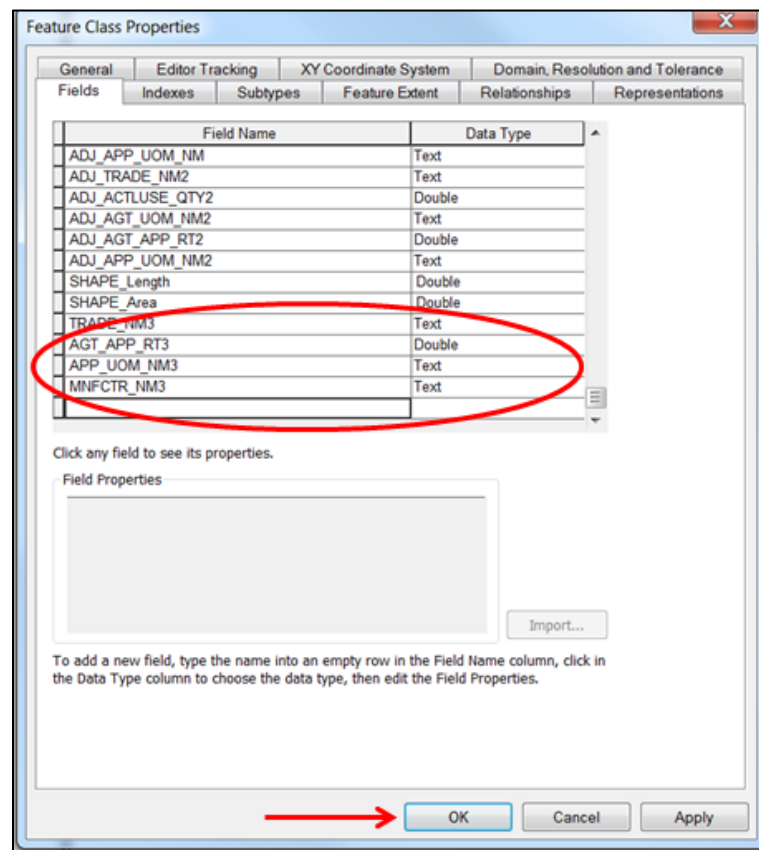
Step 7. In the Field Properties box, click in the box next “Length” and enter 40.



Step 8. Repeat Steps 5-7 for the remaining required fields, entering the information in the table below.

Field Name	Data Type	Domain	Length
AGT_APP_RT3	DOUBLE		
APP_UOM_NM3	TEXT	Application_Rate_UOM_Type	30
MNFCTR_NM3	TEXT	Manufacturer_Name	30
EPAREGISTRATIONNUMBER3	TEXT	EPA Registration Number 3	50

Step 9. Once finished, click OK.



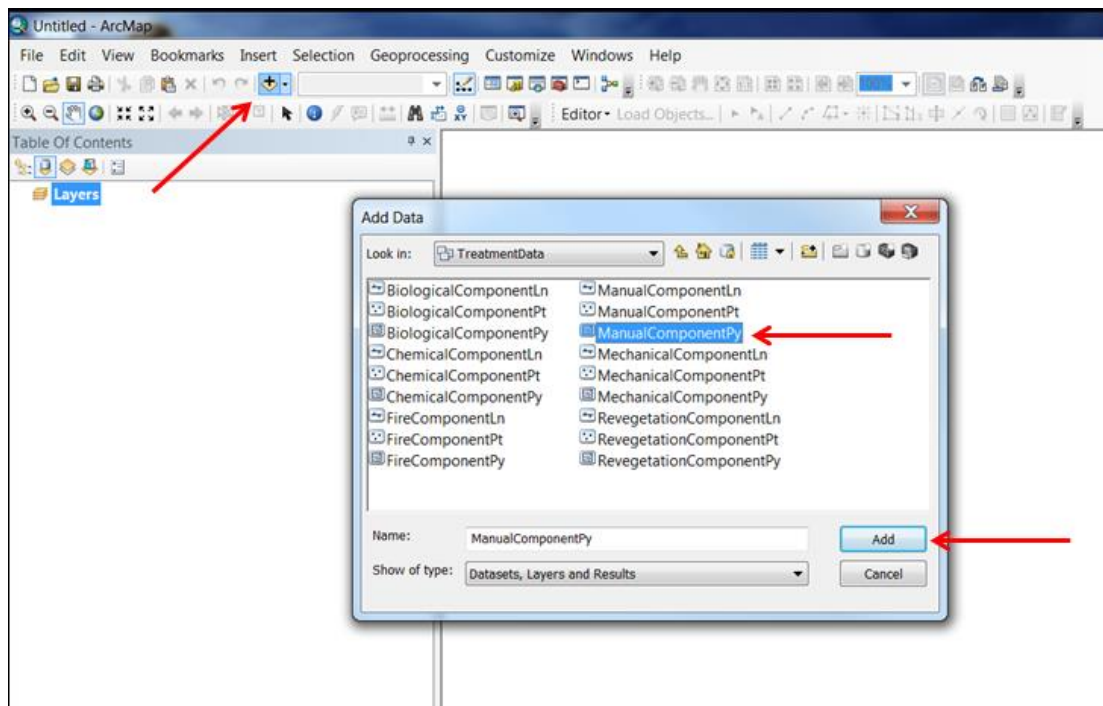
2.2.2 Copying Features

If you do not wish to add additional fields to the feature classes, you may also copy the features that represent multiple values, and populate each of the copied feature's fields with the appropriate values (e.g. feature 1: SCNTFC_CD = ALPE4, EST_CVR_RT = 50; feature 2: SCNTFC_CD = PUMO, EST_CVR_RT = 30, etc.). The appropriate relationships in SDE will be created during the uploading process. Instructions for copying a feature follow:

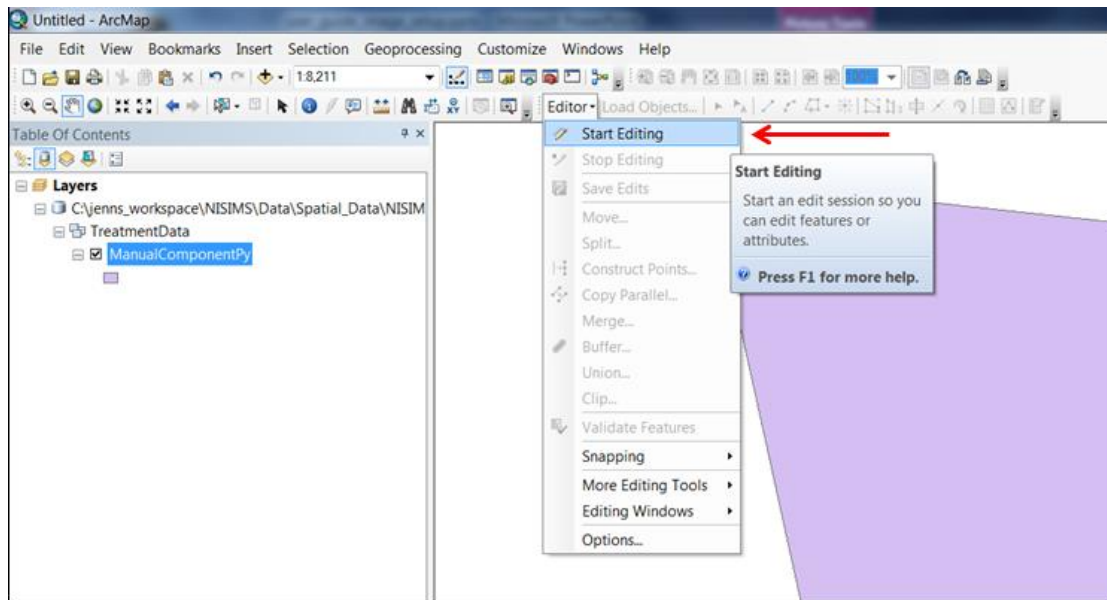
Instructions: Add features for two invasive plants that were both manually treated at the same time and location.

Step 1. Open ArcMap

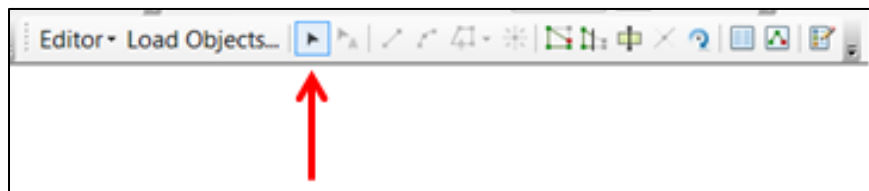
Step 2. Add the ManualComponentPy feature class that contains the feature you wish to copy.



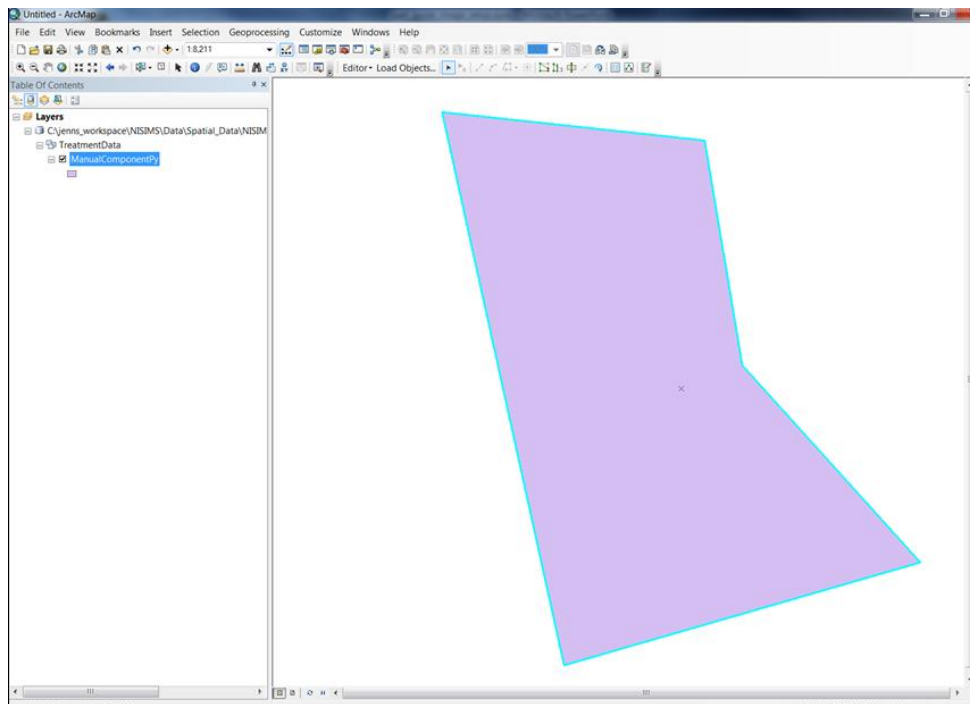
Step 3. Add the Editor Toolbar to ArcMap and start an edit session. Add the Editor Toolbar by clicking the Editor Toolbar  button on the Standard Toolbar. The Editor Toolbar may be docked by dragging it to a location and dropping it until it snaps into place. Start an edit session by clicking on the Editor Menu on the Editor Toolbar and selecting Start Editing.



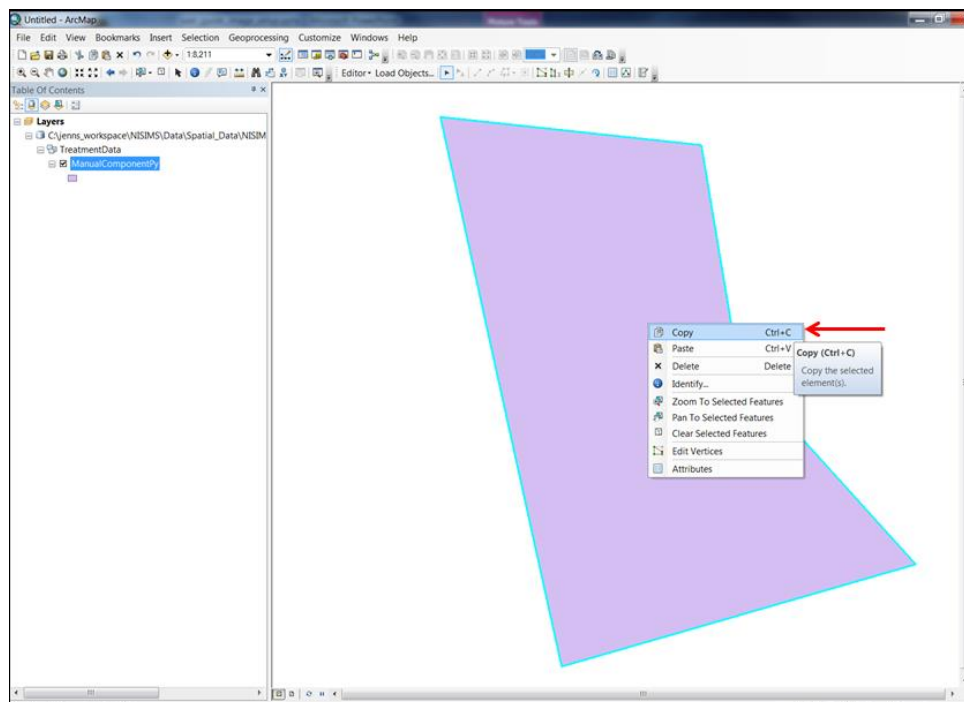
Step 4. Click on the Edit Tool button.



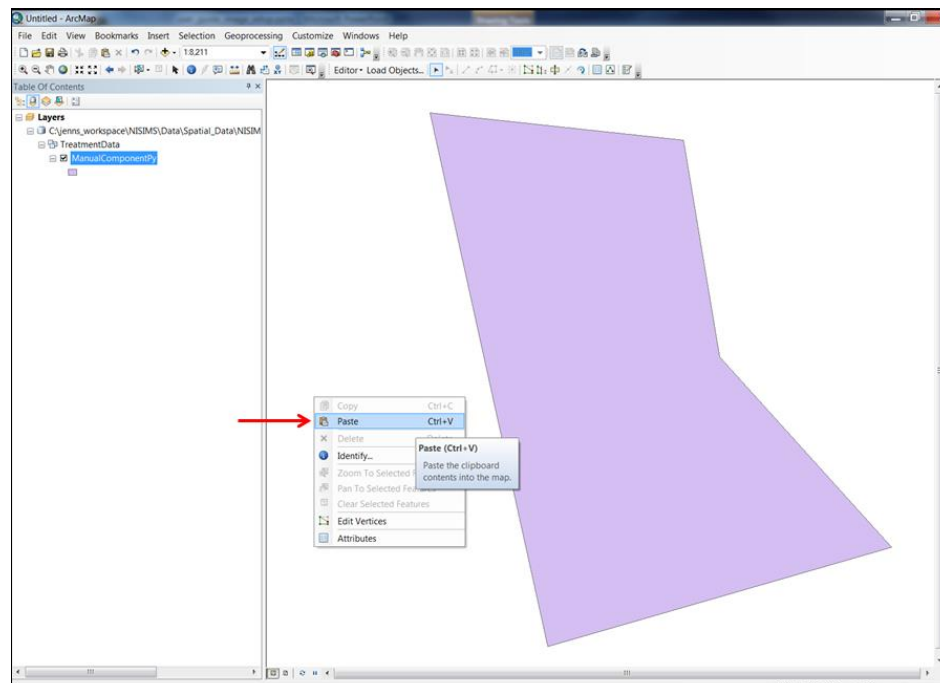
Step 5. Locate the feature that you wish to copy and click on it. Once selected, the outline of the feature should turn blue.



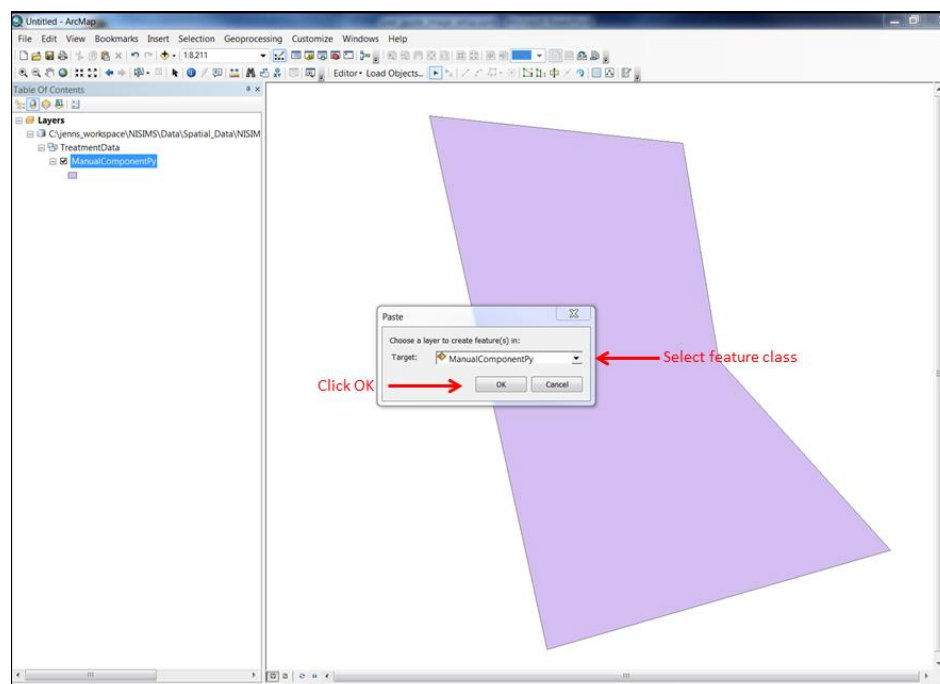
Step 6. Right click on the selected feature and select Copy.



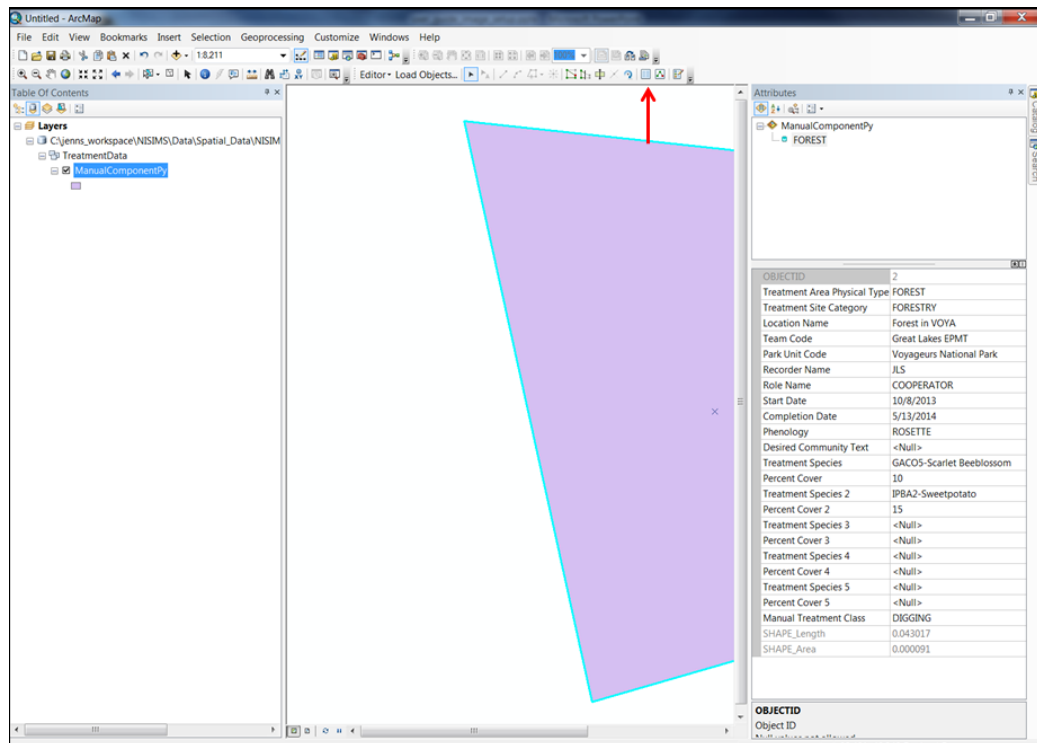
Step 7. Deselect the feature you just copied by left clicking in white space within the display window. Then, right click in the white space of the display window and select paste.



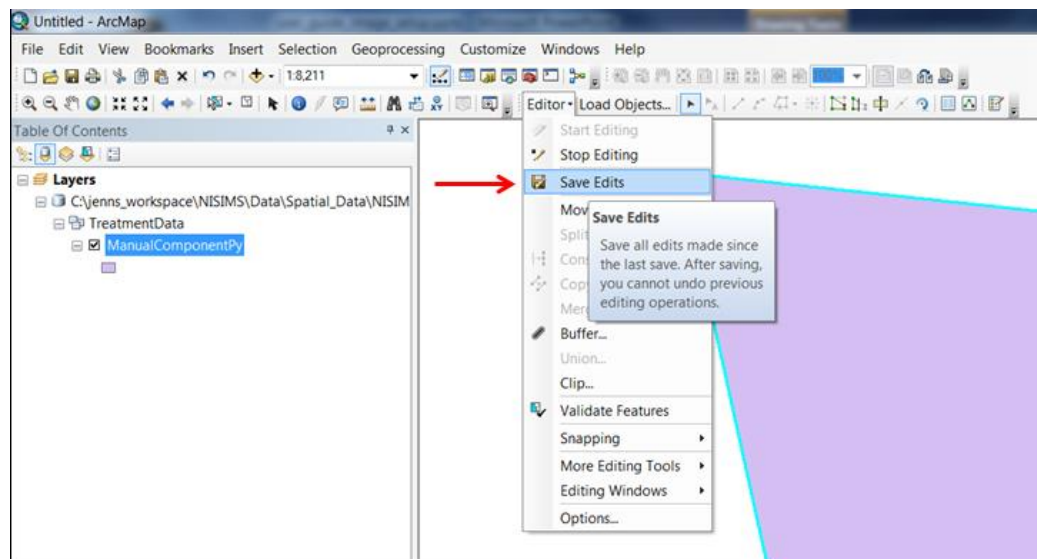
Step 8. The paste window will pop up. Select the feature class to which you wish to add the feature (ManualComponentPy in this example) and click OK. The new feature will be added to the feature class and will be selected automatically.



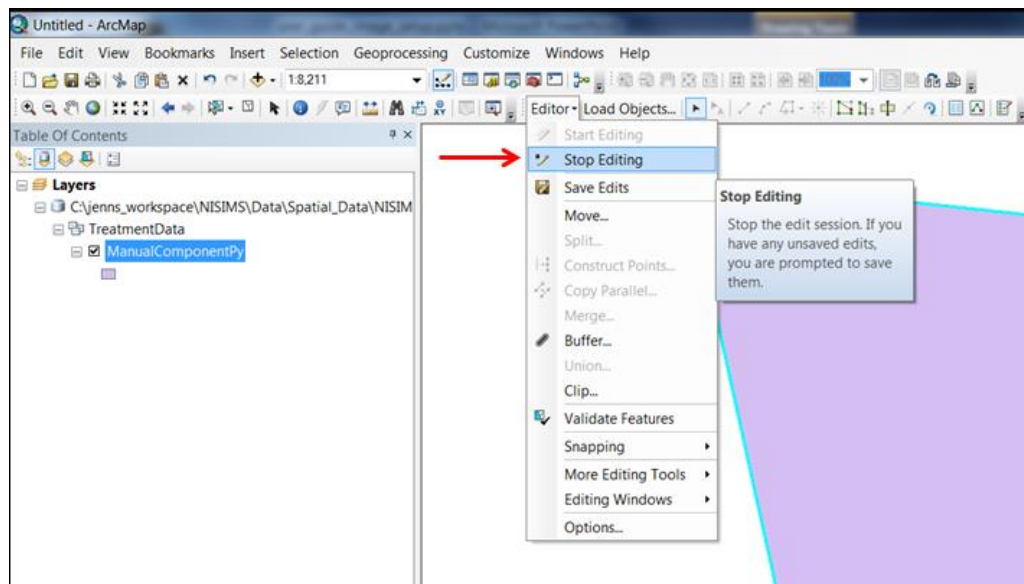
Step 9. With the new feature still selected, click the Attributes button on the Editor Toolbar. A window will open to the right that will allow you to change the appropriate fields. Click each field to change values as needed.



Step 10. Select Save Edits from the Editor menu on the Editor Toolbar.



Step 11. Select Stop Editing from the Editor menu on the Editor Toolbar when done.



3. NISIMS Data Dictionary

3.1 General Instructions

Users are encouraged to collect data using any method or technology that is most efficient for them. For those who would prefer to use a tool that has been created specifically for use with NISIMS, we have created a data dictionary that may be used with Trimble®'s TerraSync™. The data dictionary uses the same naming convention for its fields as the field geodatabase with the exception of a feature type prefix (e.g. InTEAM, pySCNTFC_CD, etc.). The same definitions for the fields as described for the field geodatabase apply (see the NISIMS Fields and Domains Guide). The data dictionary may be downloaded from the Data Store (<https://irma.nps.gov/App/Reference/Profile/2222335>), and may be edited to better meet the needs of each user. If used in its original format (exclusive of changes described in the instructions below), output files may be exported to a file geodatabase and uploaded to NISIMS as is. Details of what is contained in each field are described in the NISIMS Fields and Domains Guide. The fields found within the NISIMS Data Dictionary are listed in Appendix B.

In order to ensure that data from the data dictionary is successfully uploaded to the SDE geodatabase, some general instructions are provided:

- All underlined data dictionary attributes are required.
- If you are going to make any edits to the data in ArcGIS prior to uploading to NISIMS, export the data as a file geodatabase. The instructions are provided in a following section. Otherwise, you may upload the GPS file (i.e., .cor or .ssf).
- You may export the data in any geographic coordinate system/projection you prefer; however, instructions have been provided for export in NAD 83.
- You may delete any feature classes you are not using from the exported file geodatabase.
- Do not rename the exported feature classes that you are using.
- You may remove fields that you do not use from the data dictionary, so long as they are not required and are not used as a condition for another field. If you are having difficulty in determining whether you may remove a field, contact the WASO data manager.
- Please select menu values from the NISIMS Fields and Domains Guide (Appendix D). If you wish to add a value to any of the domains in the data dictionary, please contact the WASO data manager.
- If you need help modifying the data dictionary for your team, contact the WASO data manager.

3.2 Preparing and Uploading the Data Dictionary

The data dictionary was created using Trimble®'s GPS Pathfinder® Office. It can be edited using the Data Dictionary Editor and requires TerraSync to collect data. It is currently in a generic format with some fields not yet populated with menu attribute values. These menu attribute values allow users to select specific values from a drop-down menu while collecting data in the field. Fields with menu attribute values that need to be populated prior to use are as follows:

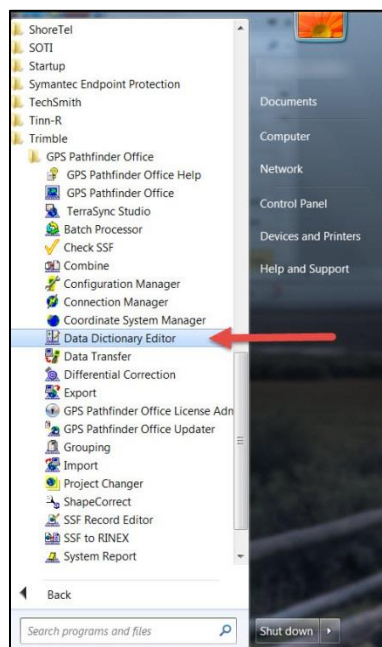
- TEAM
- PARK_UNIT
- SCNTFC_NM (including all fields followed by a number)
- BIO_SCNTFC_NM
- TRADE_NM (including all fields followed by a number)
- ADJ_TRADE_NM (including all fields followed by a number)
- RVG_SCNTFC_NM

These fields will have to be edited for all feature types (point, line, and polygon). Fields within each feature type begin with a prefix (e.g. ptTEAM, lnTEAM, pyTEAM).

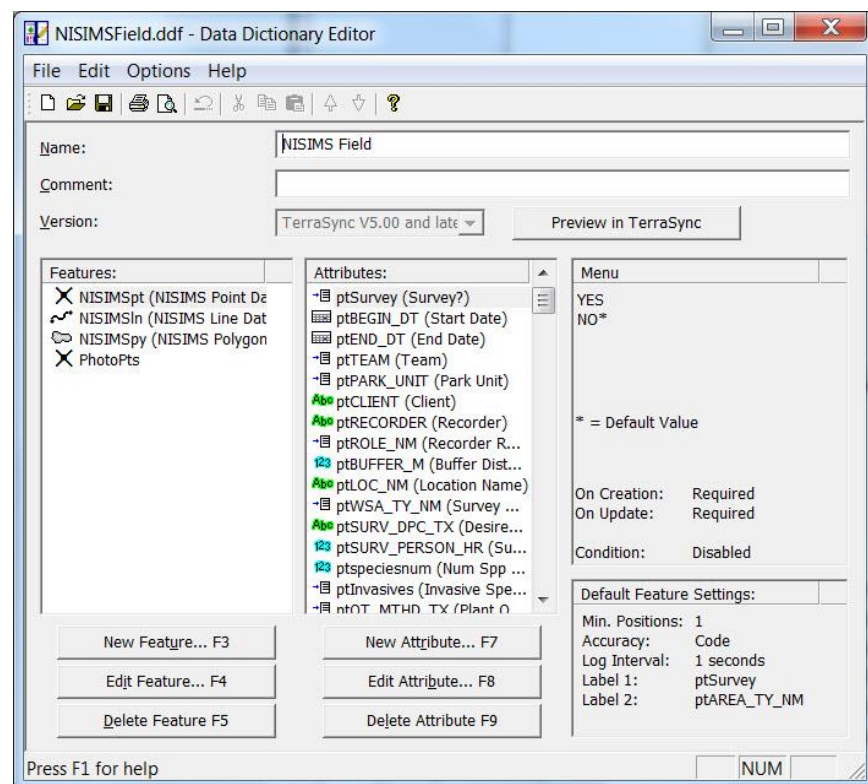
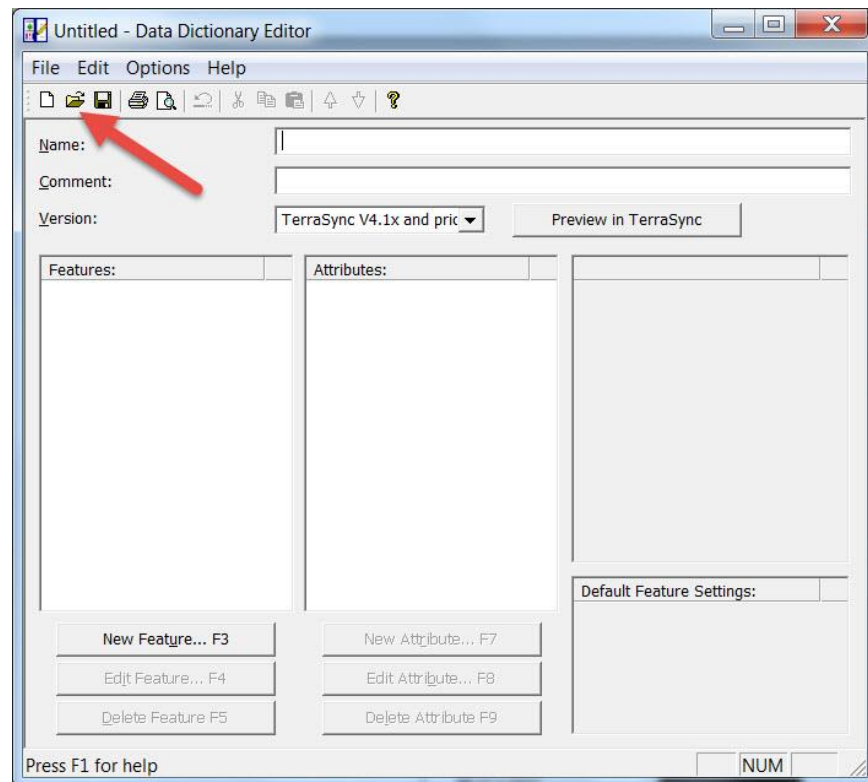
Instructions: Prepare the data dictionary for field collection and upload it to the GPS unit.

Step 1. Download the data dictionary to a location of your choice
(<https://irma.nps.gov/App/Reference/Profile/2222335>).

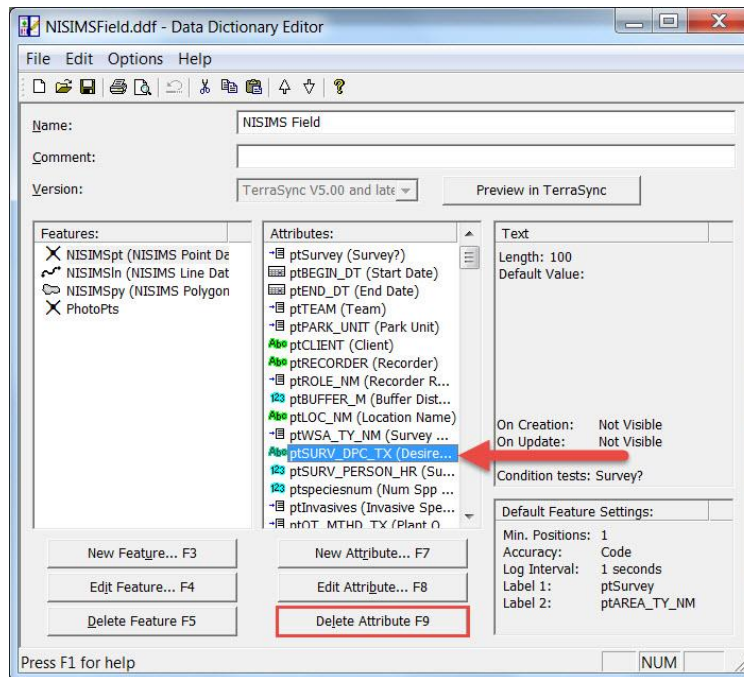
Step 2. Open “Trimble>GPS Pathfinder Office>Data Dictionary Editor” from the “Start Menu”.



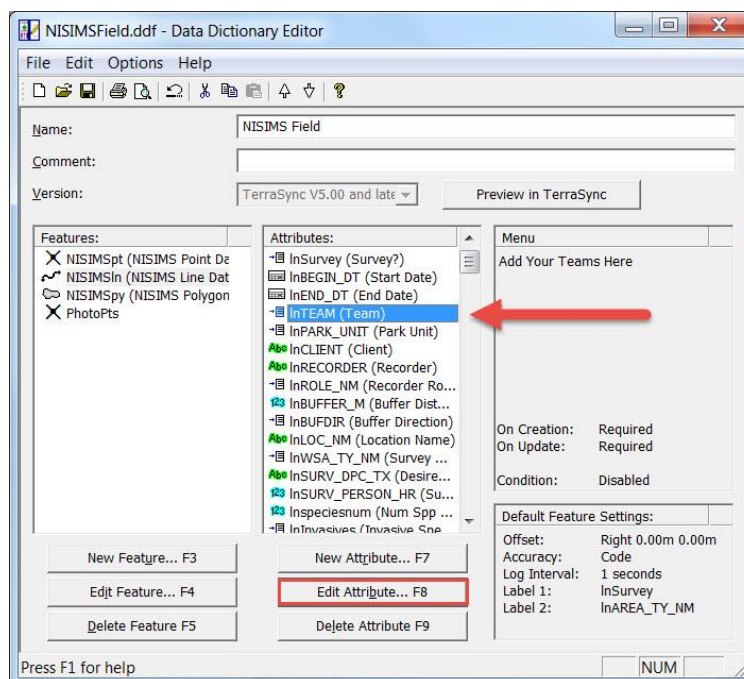
Step 3. Click the “Open” button and navigate to the data dictionary.



Step 4. Delete fields that you do not plan to use in the field by selecting a field under the “Attributes” box and clicking the “Delete Attribute F9” button. Do not delete required fields or fields used as a condition for another field.



Step 5. To add menu attribute values to a field, select the field and click the “Edit Attribute... F8” button.



Under the “Menu Attribute Values” box in the “Edit Menu Attribute” window, select the generic attribute value that begins with “Add your...”, and delete it.

Edit Menu Attribute

Name: InTEAM

Alias: Team

Menu Attribute Values

Name	User Code 1	User Code 2	Image
Add Your Te...			No

New... Edit... **Delete** ↑ ↓

Display In Field As

☒ Picklist
☐ Checkbox
☐ Radio Buttons

Feature Repeat

☒ Include in Repeat ☐ Omit From Repeat

Field Entry

On Creation: ☐ Normal ☒ Required ☐ Not Permitted ☐ Not Visible

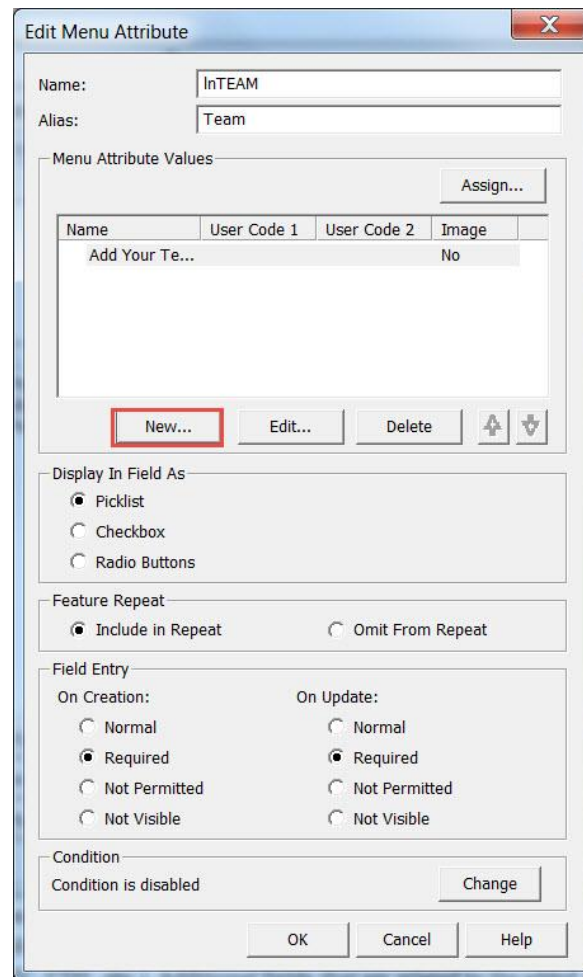
On Update: ☐ Normal ☒ Required ☐ Not Permitted ☐ Not Visible

Condition

Condition is disabled Change

OK Cancel Help

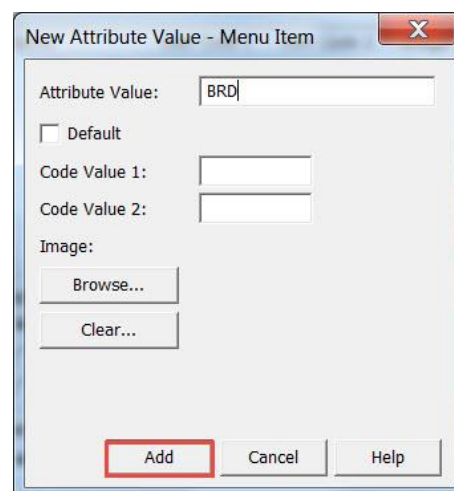
To add one attribute value at a time, click the “New...” button.



The "Edit Menu Attribute" dialog box is shown. It has a title bar with a close button. The "Name:" field contains "InTEAM" and the "Alias:" field contains "Team". Below these is a section titled "Menu Attribute Values" with an "Assign..." button. Inside this section is a table with columns "Name", "User Code 1", "User Code 2", and "Image". The table has one row with the text "Add Your Te..." and "No". Below the table are buttons for "New..." (highlighted with a red box), "Edit...", "Delete", and two arrow buttons. Below the table is a section titled "Display In Field As" with three radio buttons: "Picklist" (selected), "Checkbox", and "Radio Buttons". Below that is a section titled "Feature Repeat" with two radio buttons: "Include in Repeat" (selected) and "Omit From Repeat". Below that is a section titled "Field Entry" with two columns of radio buttons. The "On Creation:" column has "Normal", "Required" (selected), "Not Permitted", and "Not Visible". The "On Update:" column has "Normal", "Required" (selected), "Not Permitted", and "Not Visible". Below that is a section titled "Condition" with the text "Condition is disabled" and a "Change" button. At the bottom are "OK", "Cancel", and "Help" buttons.

Name	User Code 1	User Code 2	Image
Add Your Te...			No

Add the name of your attribute value in the “Attribute Value” box, and click the “Add” button.



The "New Attribute Value - Menu Item" dialog box is shown. It has a title bar with a close button. The "Attribute Value:" field contains "BRD". Below this is a "Default" checkbox. Below that are "Code Value 1:" and "Code Value 2:" fields. Below these are "Image:" and "Browse..." buttons, and a "Clear..." button. At the bottom are "Add" (highlighted with a red box), "Cancel", and "Help" buttons.

Repeat until all attribute values have been added.

- OR -

Add multiple attribute values at once by clicking the “Assign...” button in the “Menu Attribute Values” box.

Edit Menu Attribute

Name: InTEAM
Alias: Team

Menu Attribute Values

Assign...

Name	User Code 1	User Code 2	Image
Add Your Te...			No

New... Edit... Delete Up Down

Display In Field As

☒ Picklist
☐ Checkbox
☐ Radio Buttons

Feature Repeat

☒ Include in Repeat ☐ Omit From Repeat

Field Entry

On Creation: ☐ Normal ☒ Required ☐ Not Permitted ☐ Not Visible

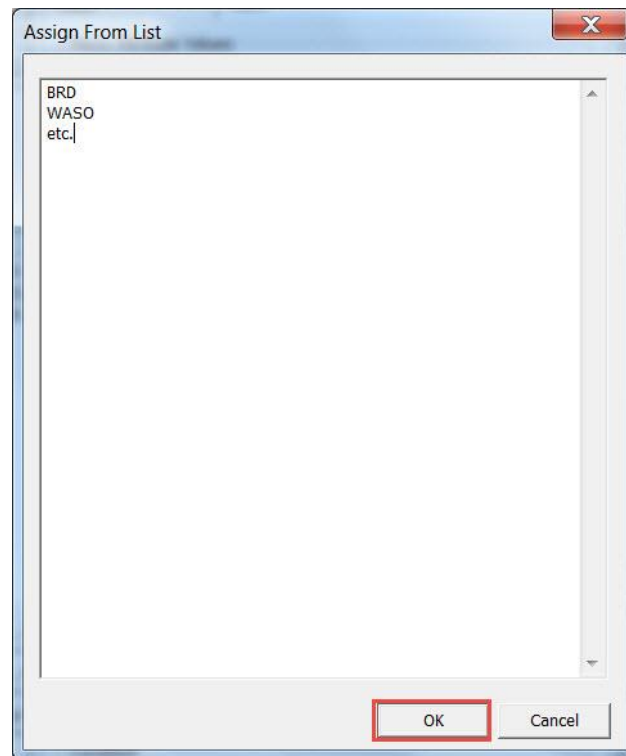
On Update: ☐ Normal ☒ Required ☐ Not Permitted ☐ Not Visible

Condition

Condition is disabled Change

OK Cancel Help

Add the list of values in the box that opens. You may copy and paste long lists in order to prevent from typing them for each field. Click OK when done.



Edit Menu Attribute

Name:

Alias:

Menu Attribute Values Assign...

Name	User Code 1	User Code 2	Image
BRD			No
WASO			No
etc.			No

New... Edit... Delete ↑ ↓

Display In Field As

☒ Picklist

☐ Checkbox

☐ Radio Buttons

Feature Repeat

☒ Include in Repeat ☐ Omit From Repeat

Field Entry

On Creation:

☐ Normal

☒ Required

☐ Not Permitted

☐ Not Visible

On Update:

☐ Normal

☒ Required

☐ Not Permitted

☐ Not Visible

Condition

Condition is disabled Change

OK Cancel Help

Repeat for all fields requiring user-specific menu attribute values:

- TEAM
- PARK_UNIT
- SCNTFC_NM (including all fields followed by a number)
- BIO_SCNTFC_NM
- TRADE_NM (including all fields followed by a number)
- ADJ_TRADE_NM (including all fields followed by a number)
- RVG_SCNTFC_NM

All species names must be spelled exactly as found in the NISIMS Species Lists. The most recent species lists can be found at the Data Store:

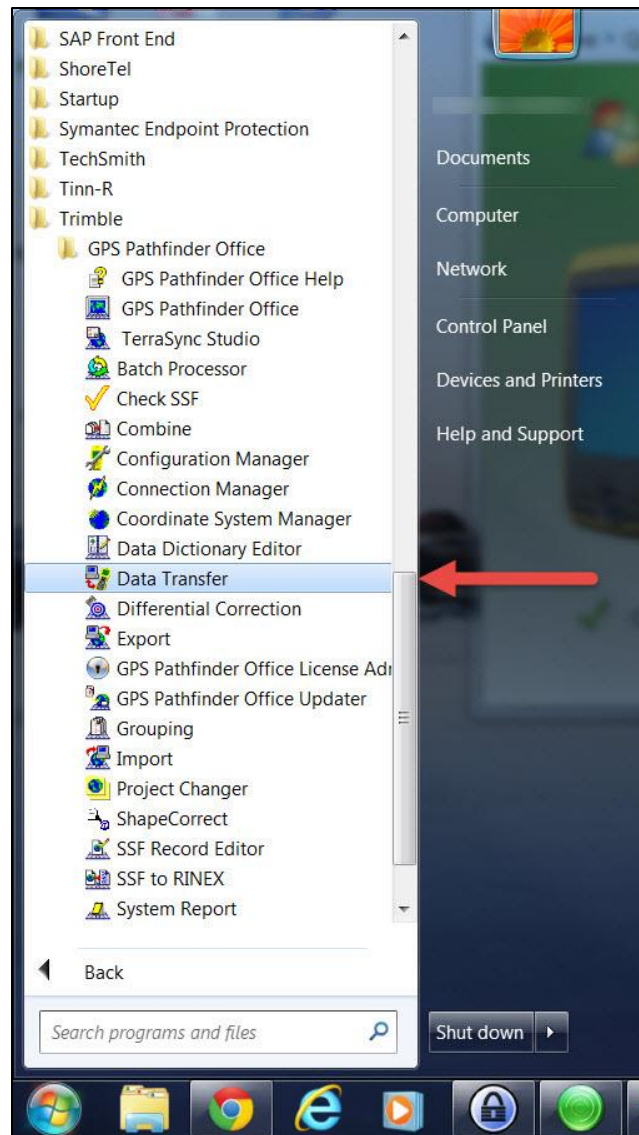
- NISIMS Invasive Plant Species List (to be used with SCNTFC_NM fields):
<https://irma.nps.gov/App/Reference/Profile/2222379>
- NISIMS Biological Control Agents Species List (to be used with BIO_SCNTFC_NM fields):
<https://irma.nps.gov/App/Reference/Profile/2222380>
- NISIMS Revegetation Species List (to be used with RVG_SCNTFC_NM fields):
<https://irma.nps.gov/App/Reference/Profile/2222381>).

If you need a species to be added to the species list, please inform the WASO Data Manager either prior to or upon uploading your data to NISIMS.

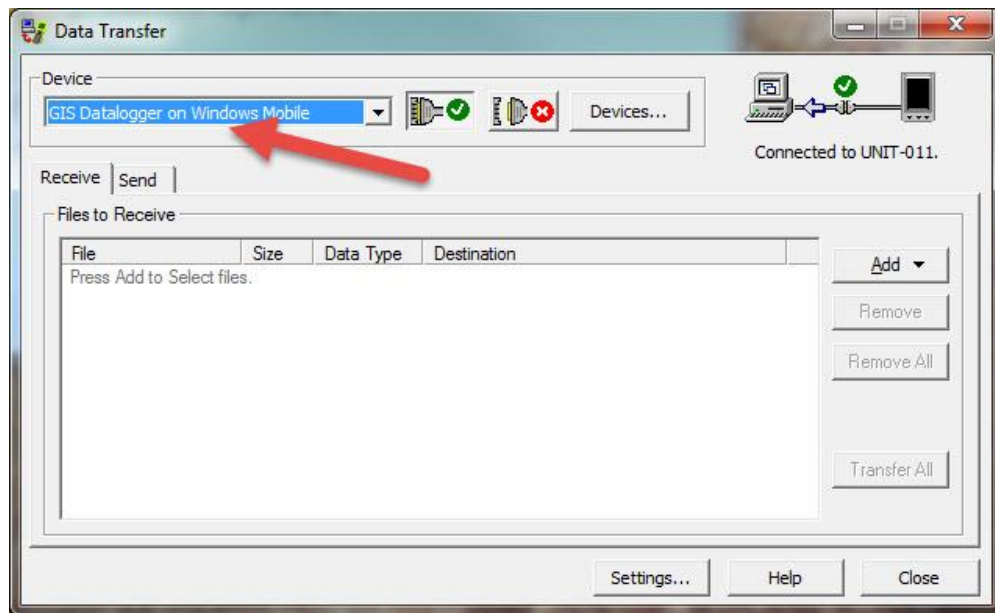
Step 6. Save the data dictionary and close the Data Dictionary Editor.

Step 7. Connect the GPS unit to the computer via a cradle or USB cord, and wait for it to connect (see GPS unit user guide to learn how to do this).

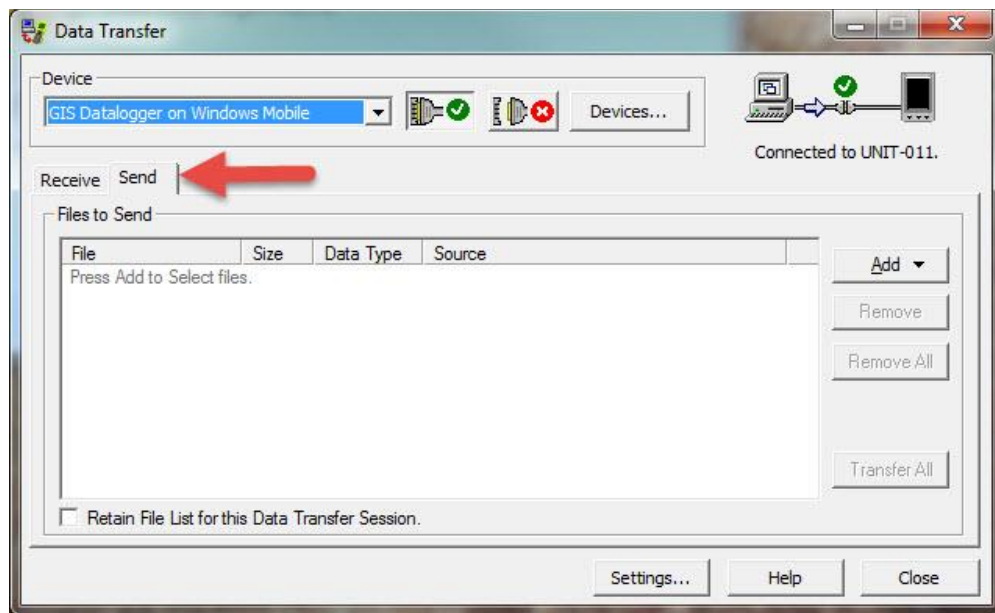
Step 8. Open the “Data Transfer” utility under “Trimble>GPS Pathfinder Office” on the “Start Menu”.



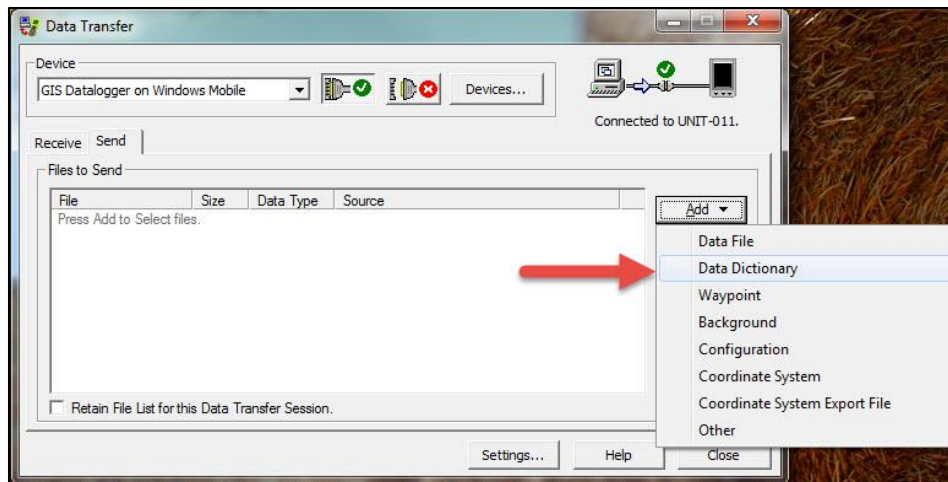
Step 9. Select the device to which you wish to upload the data dictionary in the “Device” box.



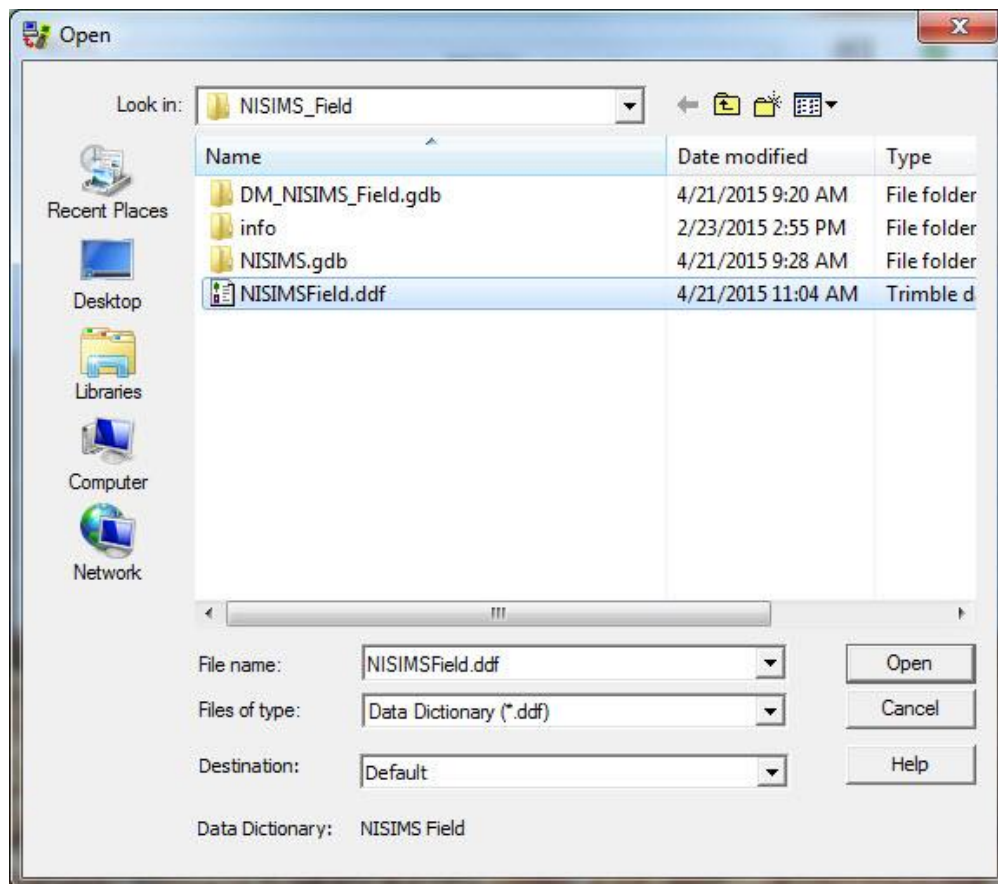
Step 10. Select the “Send” tab.



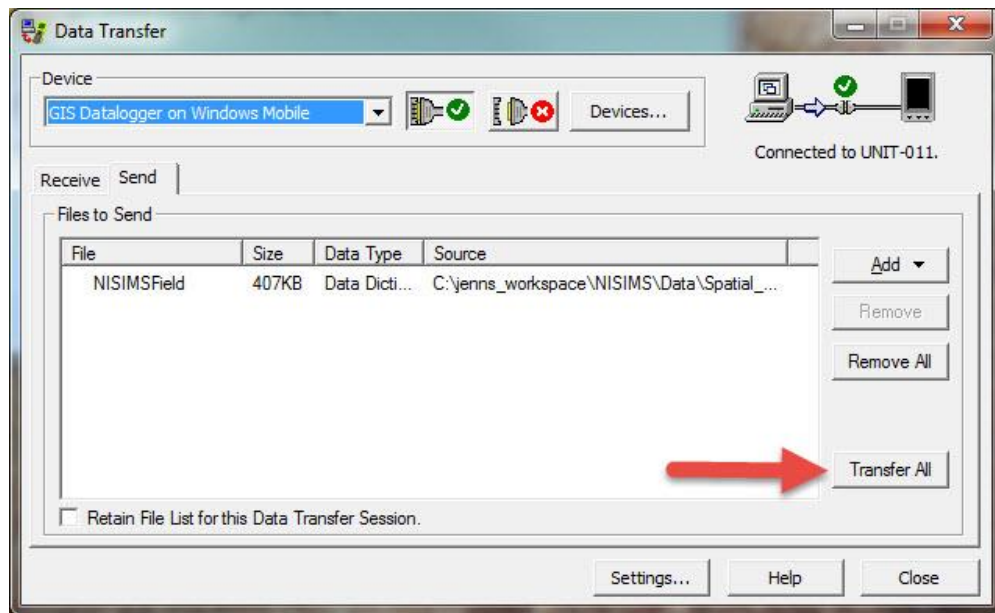
Step 11. Click the “Add” button and select “Data Dictionary” from the drop-down list.



Step 12. Browse to data dictionary in the window that opens and click “Open”.



Step 13. Transfer the data to the GPS unit by clicking the “Transfer All” button.



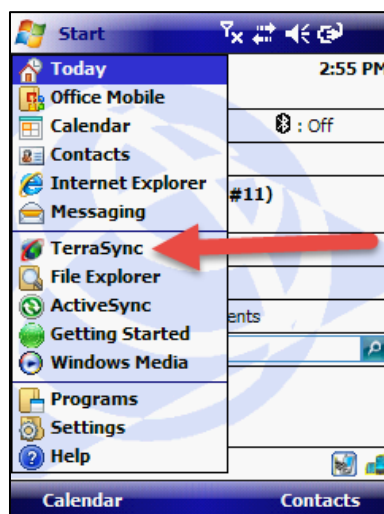
Click Close when the transfer is complete and close the “Data Transfer” utility.

3.3 Collecting Data in the Field

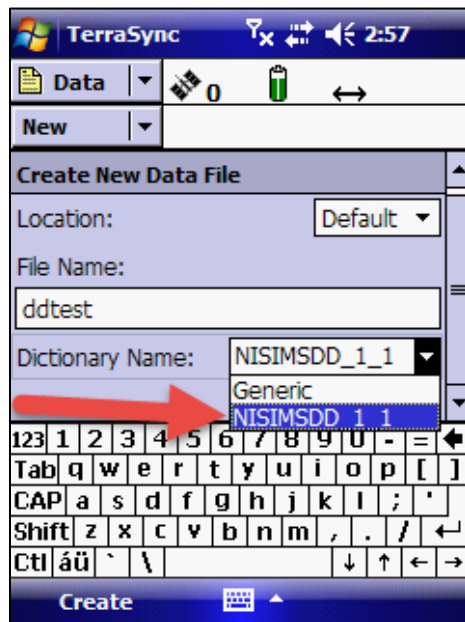
The data dictionary has been designed to collect Weed Survey, Weed Infestation, and Treatment data for NISIMS. Proposed treatment data will need to be entered into the NISIMS Field Geodatabase in the office. Data may be collected as points, lines, or polygons. In order to use the data dictionary, you will need to have TerraSync™ installed on your GPS unit.

Instructions: Use the data dictionary to collect data in the field.

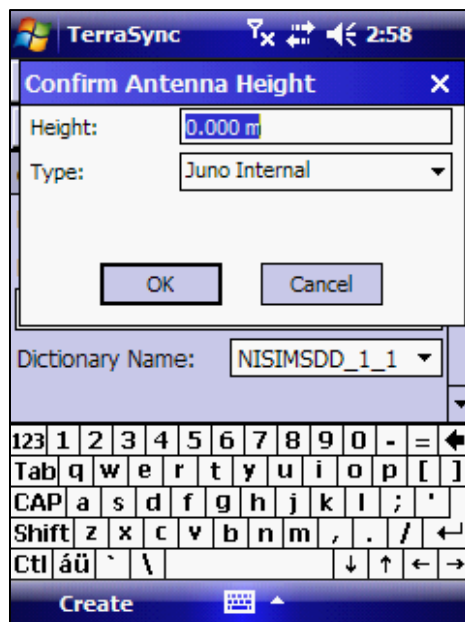
Step 1. From the Start Menu in the upper left-hand corner of the GPS unit, select “TerraSync”.



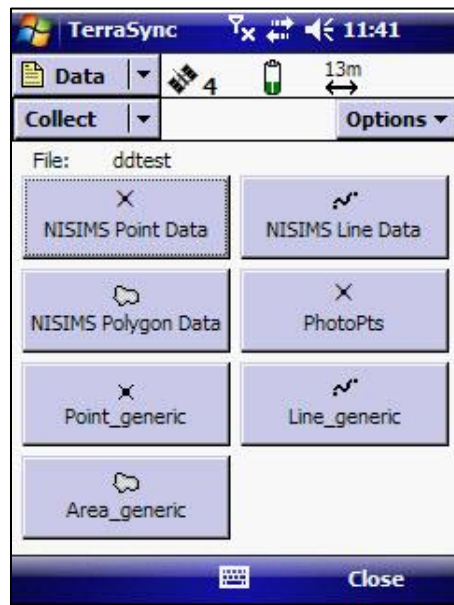
Step 2. Select Data from the top left drop-down menu. Give the file a name, and select the NISIMS data dictionary from the “Dictionary Name:” drop-down list. Click “Create”.



Step 3. Confirm antenna height in the window that opens. If you are using an external antenna, enter the antenna's height and select type of antenna. Click "OK".

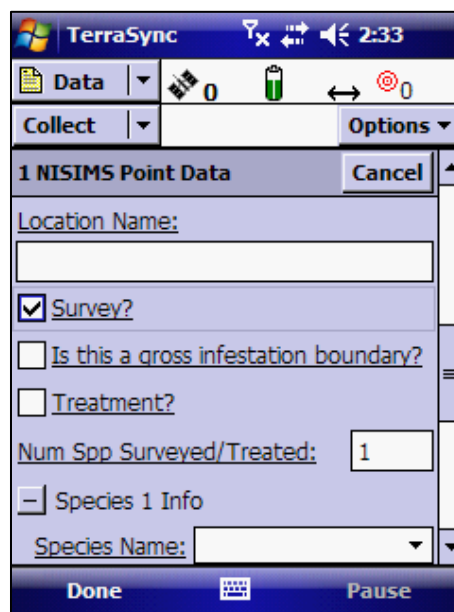


Step 4. Select feature type. NISIMS data will be collected with the "NISIMS Point Data", "NISIMS Line Data", "NISIMS Polygon Data", or "PhotoPts" features.



Step 5. Collect data. You may pause point collection from the Options menu in the upper right while entering attribute data. It may take a few seconds for fields to propagate upon clicking a check box. All underlined fields are required. You will not be able to save your location without completing all required fields.

If you are monitoring or inventorying a location, check the box next to “Survey?”. This will allow you to enter Weed Survey data.



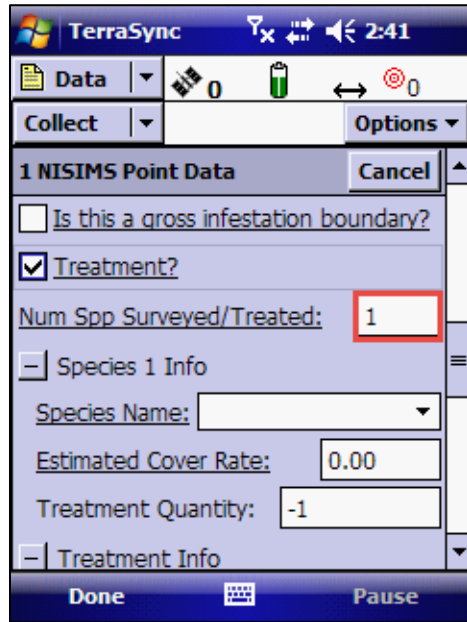
If you wish the data to be used to calculate gross and net infestation acreages, select the “Is this gross infestation data?” box. This box should only be selected if you intend to use this boundary as a measure of gross infestation. This will allow you to enter Weed Infestation data.

The screenshot shows the TerraSync mobile application interface. At the top, there's a status bar with the time 2:37. Below it, a navigation bar contains 'Data', 'Collect', and 'Options'. The main form is titled '1 NISIMS Point Data' and includes a 'Cancel' button. The form fields are: 'Location Name:' (text input), 'Survey?' (checkbox), 'Is this a gross infestation boundary?' (checked checkbox), 'Treatment?' (checkbox), 'Num Spp Surveyed/Treated:' (text input with value 1), 'Species 1 Info' (checkbox), and 'Species Name:' (dropdown menu). At the bottom, there are 'Done' and 'Pause' buttons.

If you are treating a location, check the box next to “Treatment?”.

The screenshot shows the TerraSync mobile application interface. At the top, there's a status bar with the time 2:39. Below it, a navigation bar contains 'Data', 'Collect', and 'Options'. The main form is titled '1 NISIMS Point Data' and includes a 'Cancel' button. The form fields are: 'Location Name:' (text input), 'Survey?' (checkbox), 'Is this a gross infestation boundary?' (checkbox), 'Treatment?' (checked checkbox), 'Num Spp Surveyed/Treated:' (text input with value 1), 'Species 1 Info' (checkbox), and 'Species Name:' (dropdown menu). At the bottom, there are 'Done' and 'Pause' buttons.

Enter the number of species for which you are searching or treating in the box next to “Num Spp Surveyed/Treated:”, even if the species are not present. This will allow you to enter data for multiple species that are linked to this feature.



TerraSync 2:41

Data Collect Options

1 NISIMS Point Data Cancel

☐ Is this a gross infestation boundary?

☒ Treatment?

Num Spp Surveyed/Treated: 1

Species 1 Info

Species Name:

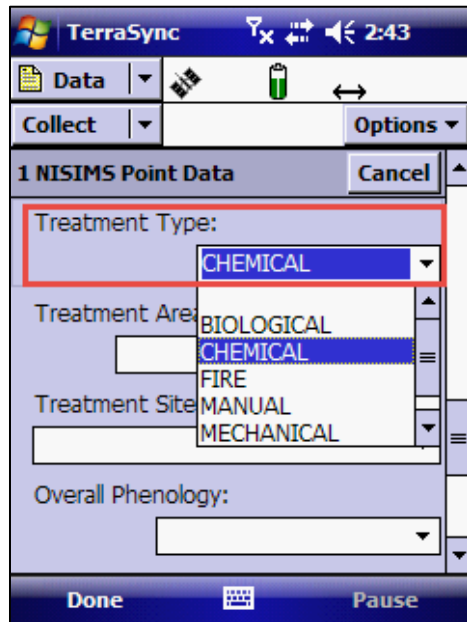
Estimated Cover Rate: 0.00

Treatment Quantity: -1

Treatment Info

Done Pause

If you are treating a location, select the treatment type from the “Treatment Type” box.



TerraSync 2:43

Data Collect Options

1 NISIMS Point Data Cancel

Treatment Type: CHEMICAL

Treatment Area: BIOLOGICAL

Treatment Site: CHEMICAL

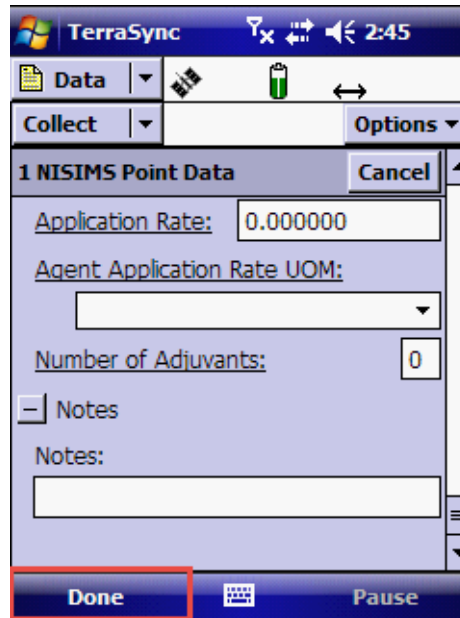
Overall Phenology: FIRE

MANUAL

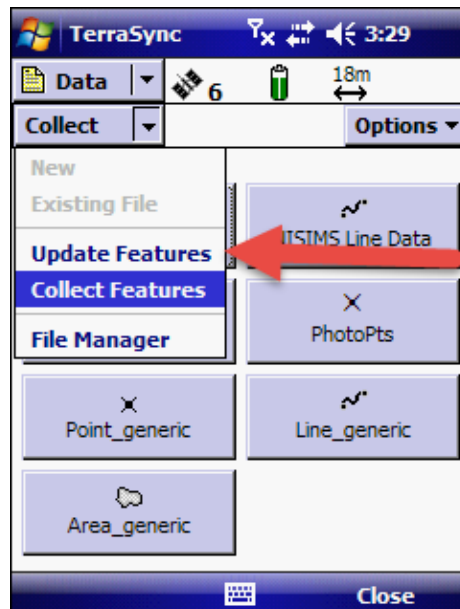
MECHANICAL

Done Pause

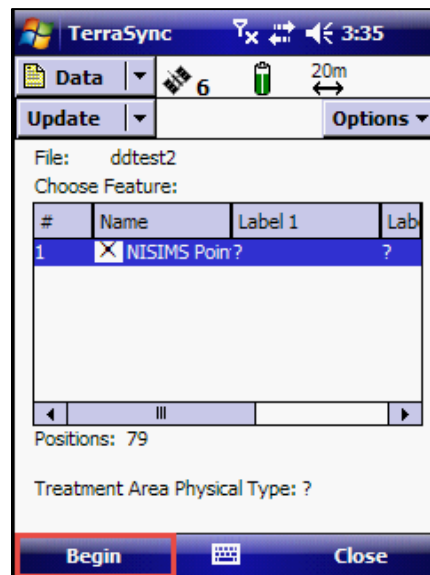
Step 5. Once all data have been entered, click “Done”.



Step 6. To update features, select “Update Features” from the lower left menu.



Select the feature that you wish to update and click “Begin”.



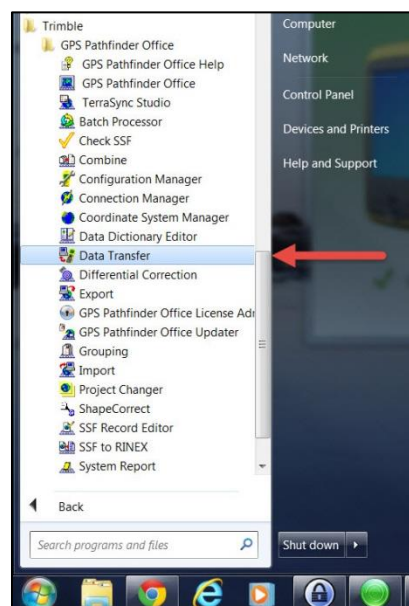
Make changes as needed, and click “Done” when completed.

3.4 Downloading Data from the GPS Unit

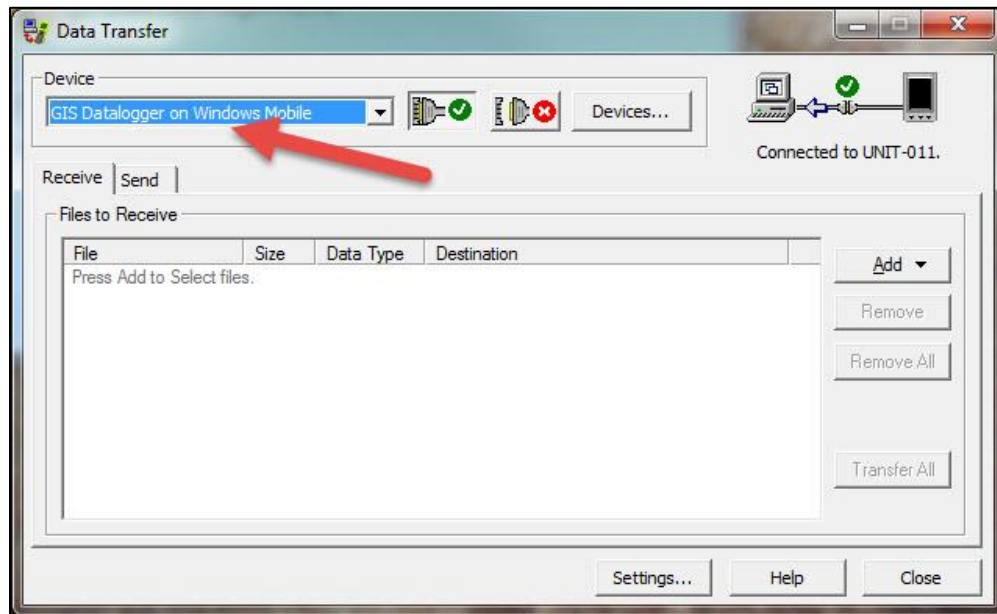
Once you are finished collecting data, download it from the GPS unit.

Instructions: Download data from your GPS unit.

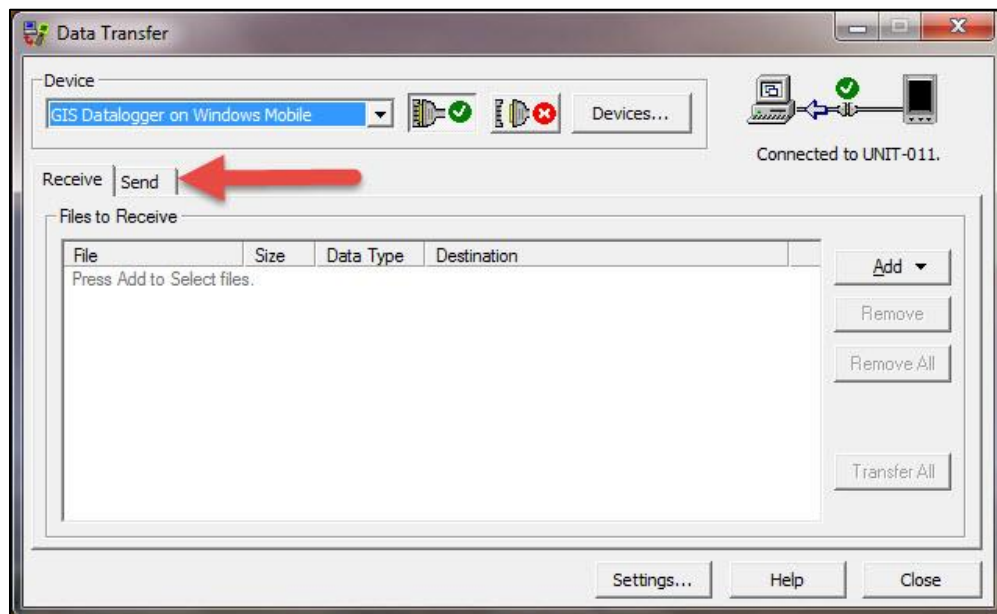
Step 1. Open the “Data Transfer” utility from “Trimble>GPS Pathfinder Office” on the “Start Menu”.



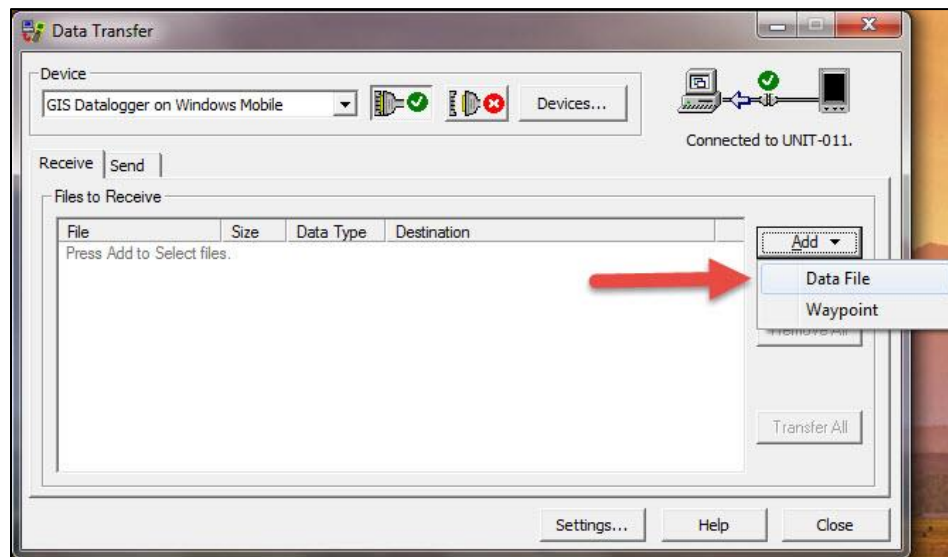
Step 2. Select the device from which you wish to download data.



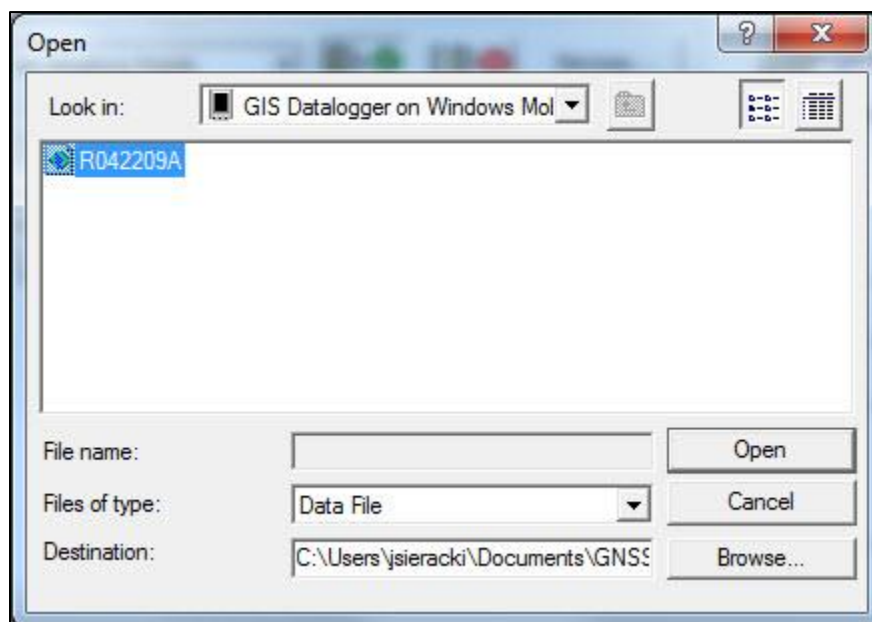
Step 3. Make sure the “Receive” tab is selected.



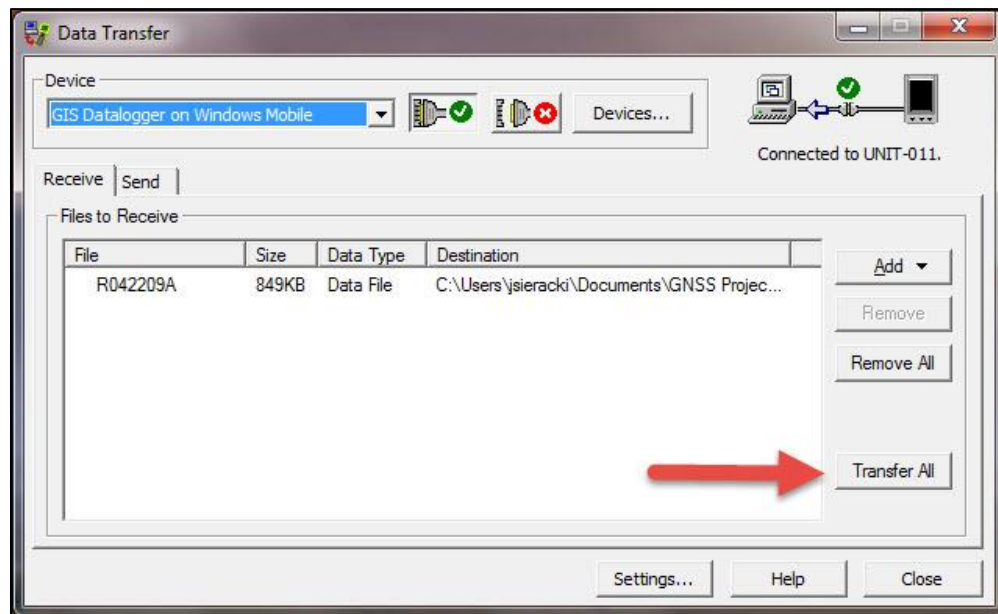
Step 4. Click the Add button and select Data File.



Browse to your Data File.



Step 5. Click Transfer All.



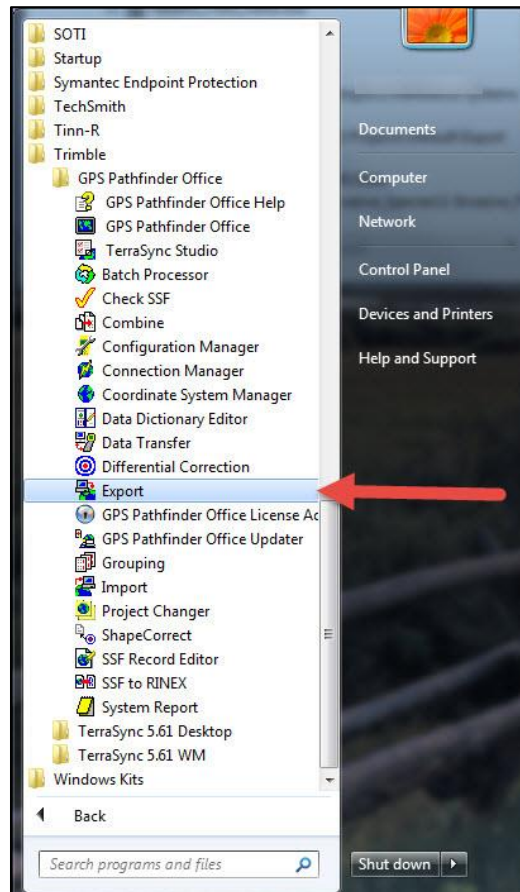
Click Close once the transfer is complete. The data may now be uploaded to NISIMS or exported to a file geodatabase.

3.5 Exporting GPS Data to a File Geodatabase

Once the data has been transferred from the GPS unit, you may export it to a file geodatabase.

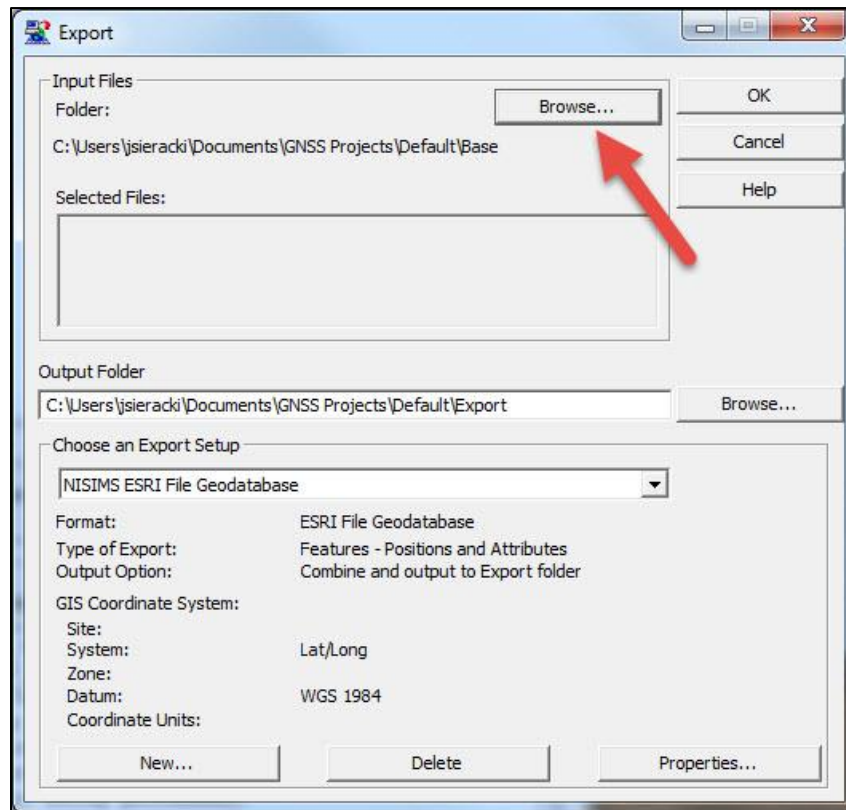
Instructions: Export GPS data to a file geodatabase.

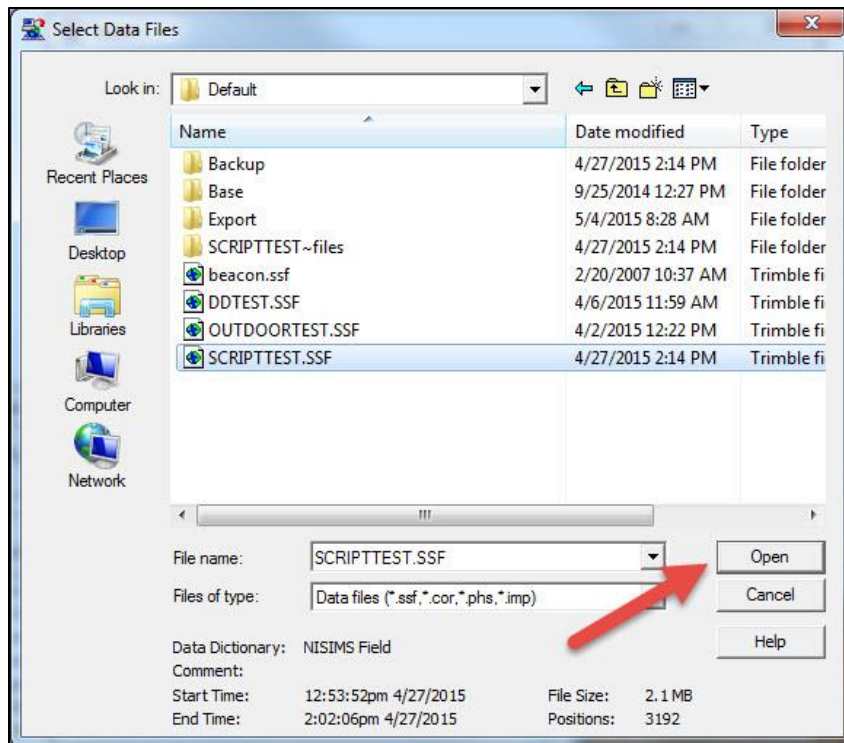
Step 1. Open the Export utility.



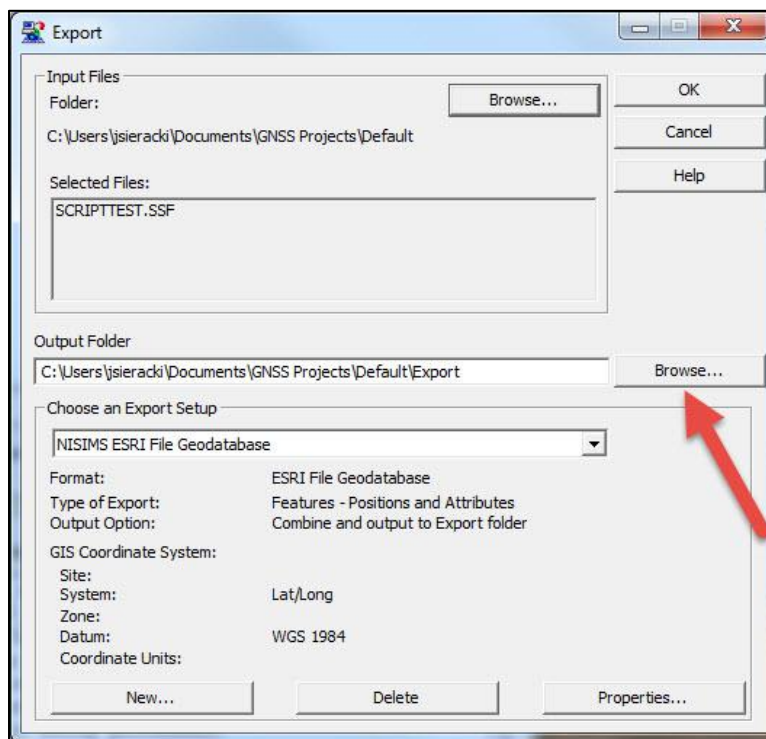
e

Step 2. Click the “Browse...” button in the “Input Files” box, and browse to the transferred GPS file and click Open.

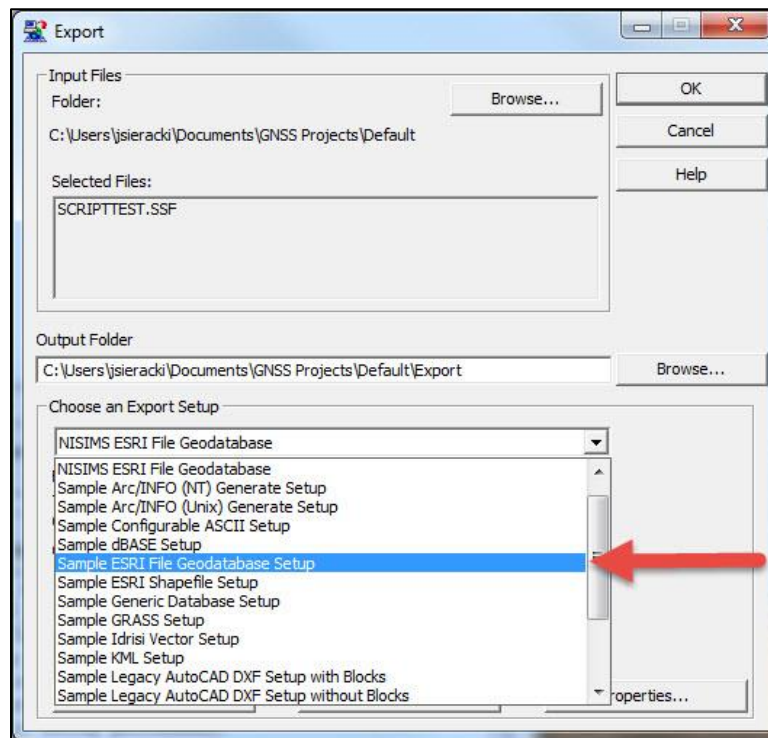




Step 3. Click the “Browse” button next to the “Output Folder” box, and browse to the output folder if different from the default.

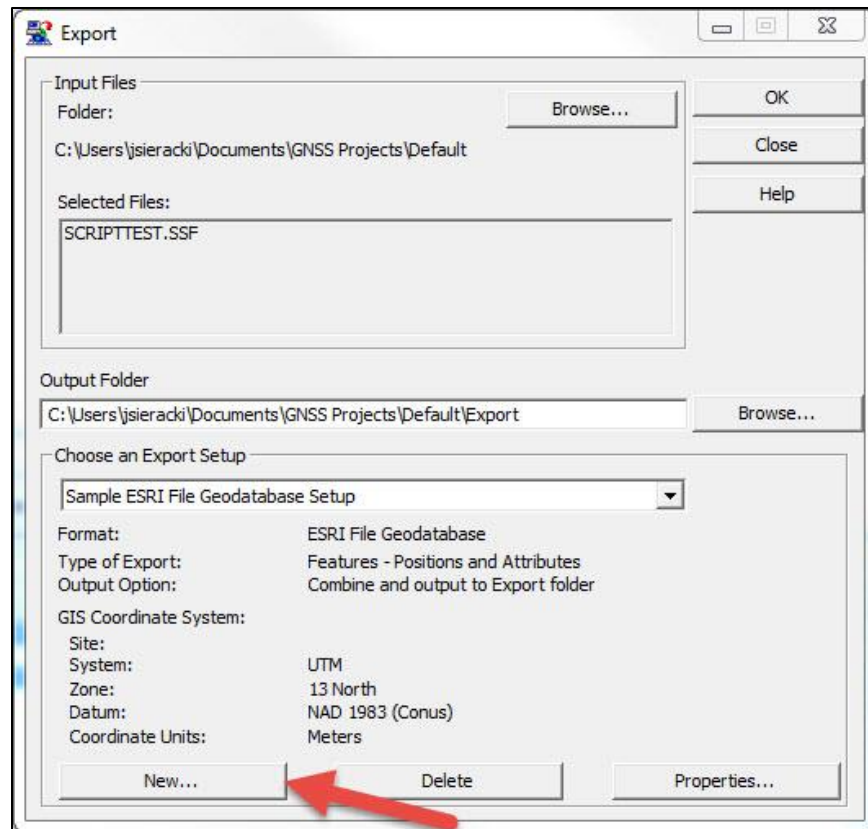


Step 4. Select “Sample ESRI File Geodatabase Setup” from the drop-down box in the “Choose an Export Setup” box.

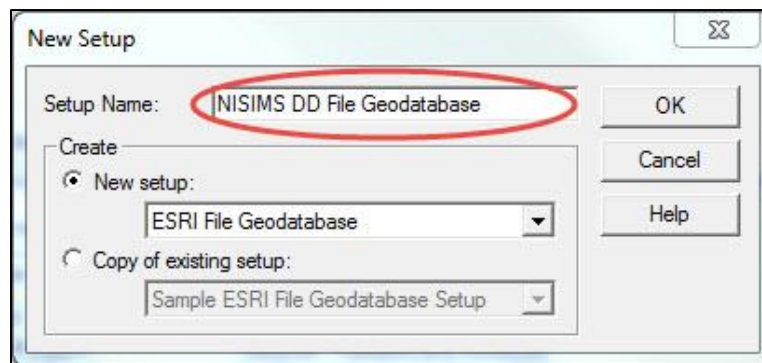


***Steps 5 through 8 will only have to be done once. Once you have completed these steps on your computer, you will be able to reselect this Setup from the drop-down menu.**

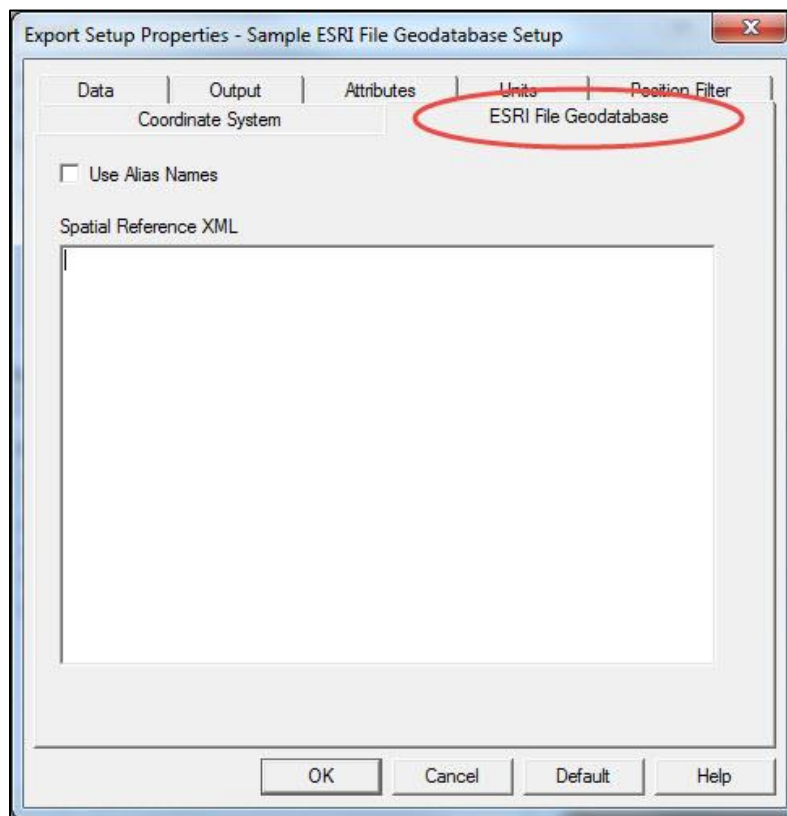
Step 5*. Click the “New...” button.



Step 6*. Type a name into the “Setup Name” box in the “New Setup” window and click “OK”. This will save your settings for future use.

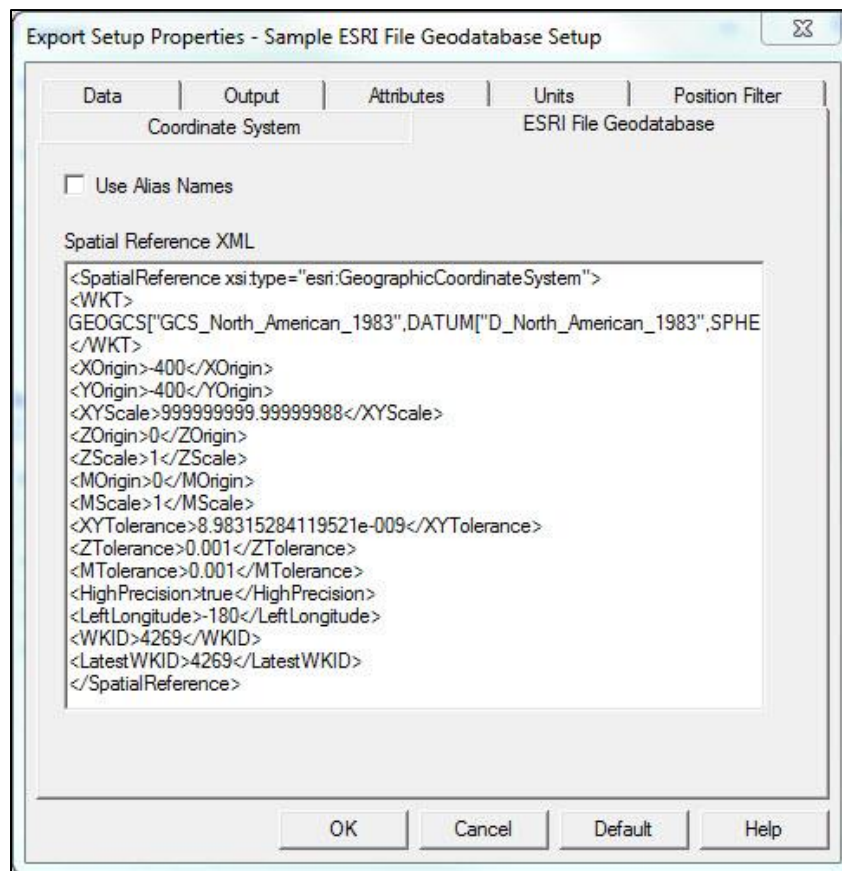


Step 7*. In the window that opens, Select the “ESRI File Geodatabase” tab.

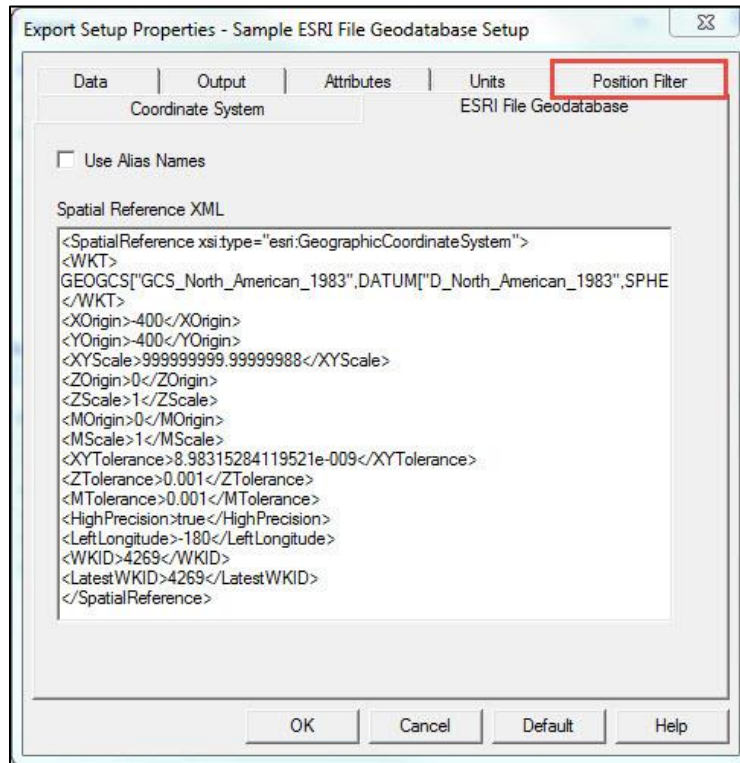


Copy and paste the following text into the “Spatial Reference XML” box.

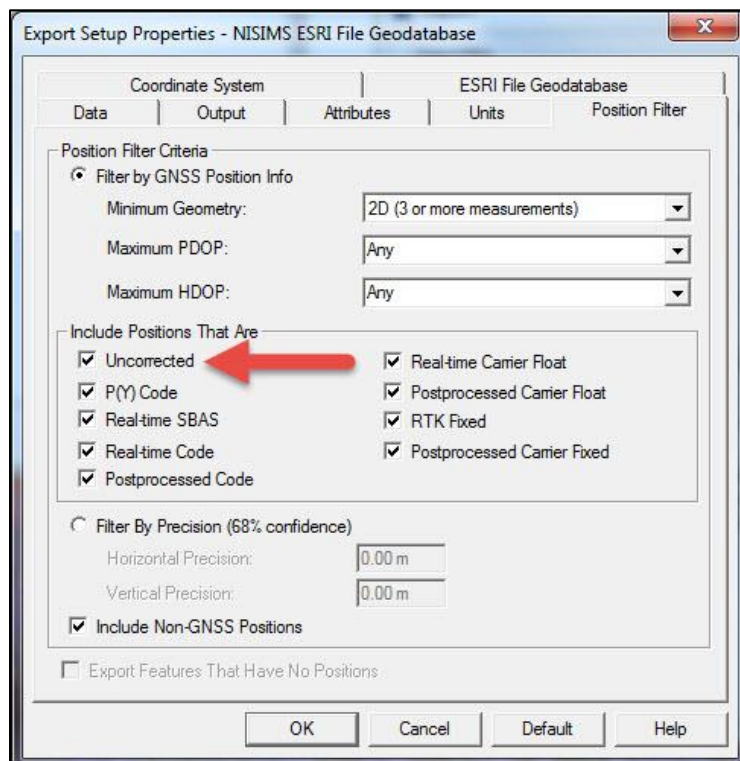
```
<SpatialReference xsi:type="esri:GeographicCoordinateSystem">
<WKT>
GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS
_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199
433],AUTHORITY["EPSG",4269]]
</WKT>
<XOrigin>-400</XOrigin>
<YOrigin>-400</YOrigin>
<XYScale>999999999.99999988</XYScale>
<ZOrigin>0</ZOrigin>
<ZScale>1</ZScale>
<MOrigin>0</MOrigin>
<MScale>1</MScale>
<XYTolerance>8.98315284119521e-009</XYTolerance>
<ZTolerance>0.001</ZTolerance>
<MTolerance>0.001</MTolerance>
<HighPrecision>true</HighPrecision>
<LeftLongitude>-180</LeftLongitude>
<WKID>4269</WKID>
</SpatialReference>
```



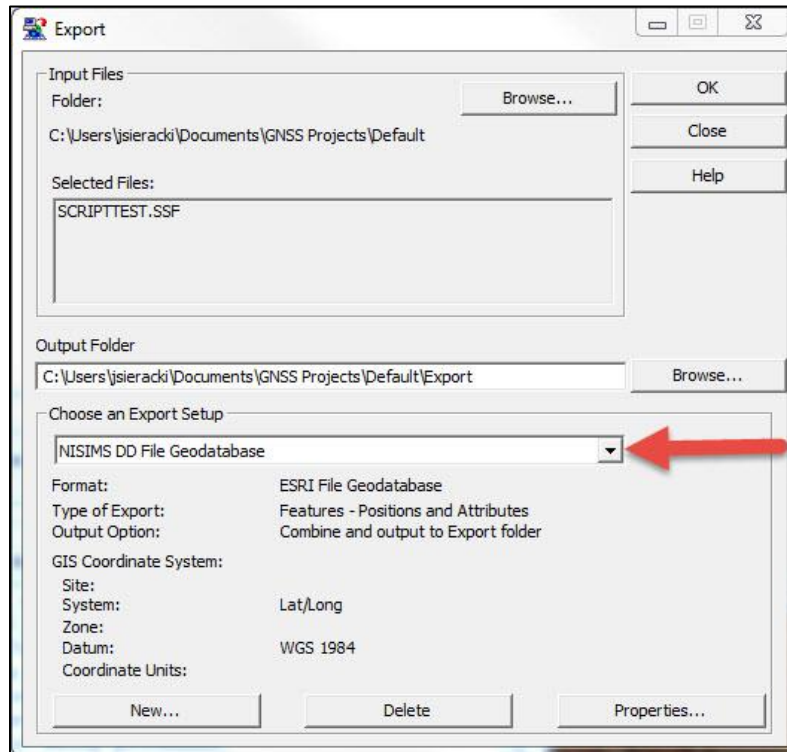
Step 8*. Select the “Position Filter Tab”.



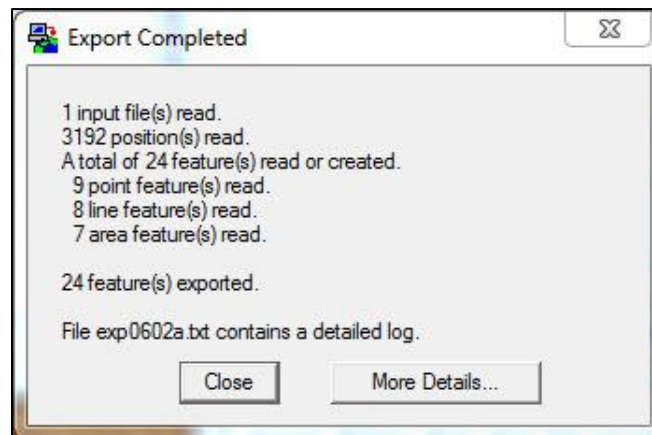
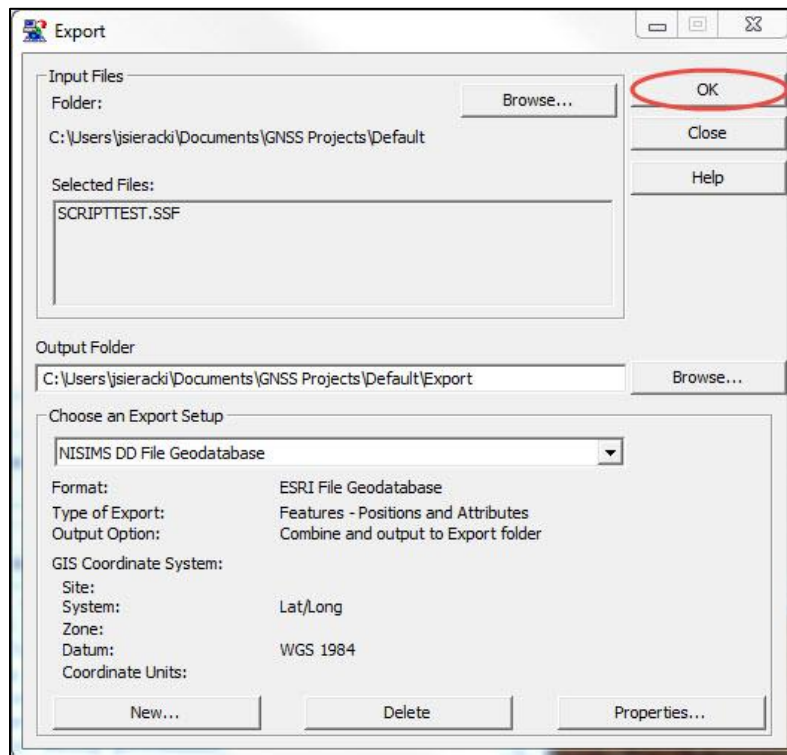
Make sure the box next to “Uncorrected” is checked. Click “OK” when done.



Step 9. Select your “Export Setup” created in Steps 5-8 from the drop-down menu.



Step 10. Click “OK”. When the “Export Completed” window opens, check that all features have been exported, and click” Close”.



Your export is now complete. Check it to make sure all data converted correctly and make changes as necessary. You may now upload it to the NISIMS website.

4. NISIMS Collector for ArcGIS

4.1 General Instructions

Users are encouraged to collect data using any method or technology that is most efficient for them. As an alternative to the TerraSync™ Data Dictionary, the Invasive Plant Program is also supporting the use of Collector for ArcGIS® for collecting NISIMS data in the field. Collector may be used on Android, iOS, and Windows devices (see website for device requirements: <http://doc.arcgis.com/en/collector/>). With Collector, you may make edits to the feature classes in the NISIMS Field Geodatabase while in the field, using the devices GPS capabilities or an external GPS antenna.

Some things to keep in mind if you choose to use Collector for field data collection:

- Not all Android, iOS, or Windows devices will run Collector. Be sure to review the device requirements at <http://doc.arcgis.com/en/collector/>.
- GPS accuracy may vary widely depending on the device you are using and its GPS capabilities. If accuracies are low, an external GPS antenna is advisable.
- If it is determined that an external GPS antenna is required, be sure that it will work with your device. For instance, some devices do not allow for the attachment of USB devices, requiring a Bluetooth device instead.
- An ArcGIS® Online account is required in order to download data from your device. This can be acquired from your Regional GIS coordinator.
- WiFi or cellular coverage is required in order to sync your device with your ArcGIS® Online account and to download data. Cellular coverage will require a monthly fee.

To ensure that data downloaded from Collector are successfully uploaded to the SDE geodatabase, some general instructions are provided here:

- The feature datasets and feature classes have been assigned a geographic coordinate system of NAD 83; however, you may maintain data in your preferred coordinate system. It will be converted by the WASO data manager prior to uploading to the SDE geodatabase.
- You only need to upload and output the feature classes you are using.
- You do not need to maintain the dataset structure from the NISIMS Field Geodatabase. You may upload the file geodatabase as exported by ArcGIS® Online.

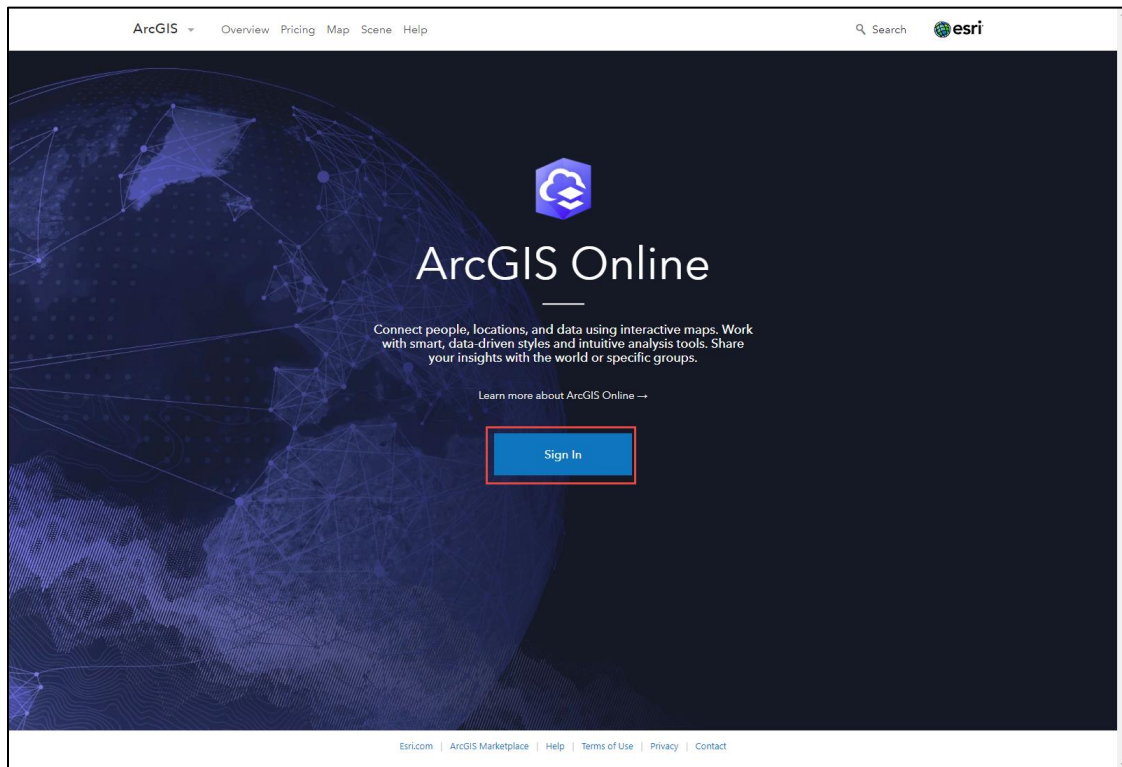
- You must maintain the feature class naming convention from the NISIMS Field Geodatabase.
- Do not rename any of the fields from the feature classes you are using.
- If you wish to add a value to any of the domains in the geodatabase, please contact the WASO data manager.
- If you need help modifying the field geodatabase for your team, contact the WASO data manager.
- Export all files from ArcGIS® Online in a file geodatabase.

4.2 Creating a Group in ArcGIS Online

Prior to using Collector, you will need to contact your Regional GIS Coordinator for an ArcGIS® Online account. Before uploading layers to ArcGIS® Online, you must create a Group.

Instructions: Create a group at ArcGIS Online.

Step 1. Go to www.arcgis.com, and click “Sign In”.



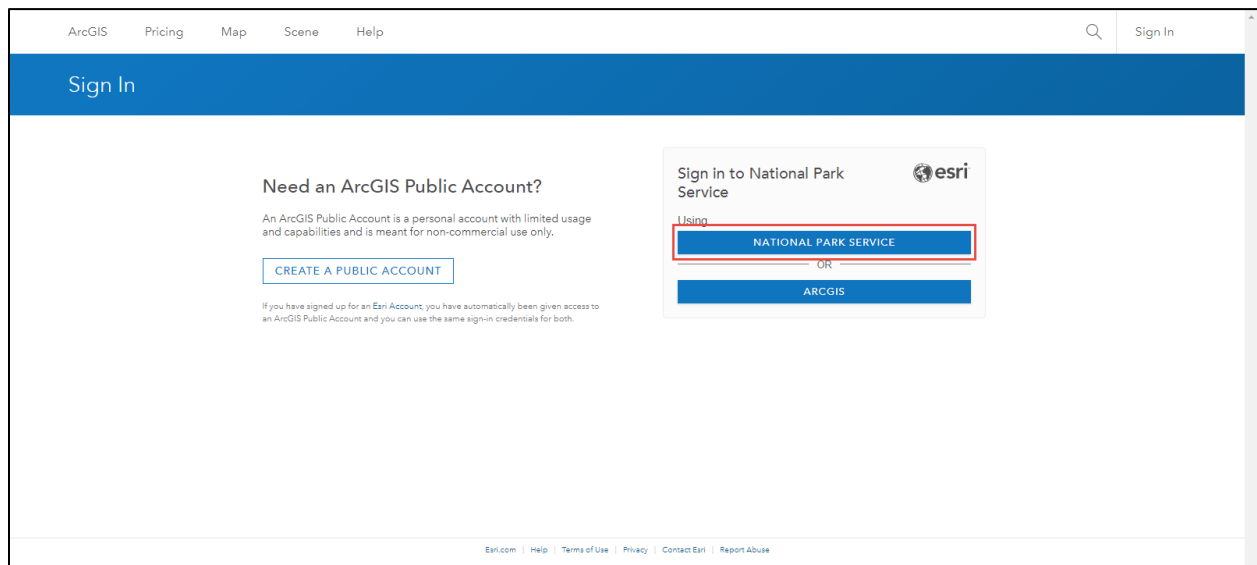
On the right-hand side of the screen that opens, click the “Enterprise Login” button.

The screenshot shows the ArcGIS Sign In page. The top navigation bar includes links for ArcGIS, Pricing, Map, Scene, and Help, along with a search icon and a Sign In link. The main heading is "Sign In". On the left, there is a section titled "Need an ArcGIS Public Account?" with a "CREATE A PUBLIC ACCOUNT" button. On the right, the "Sign In" form is displayed. It includes fields for Username and Password, a "Keep me signed in" checkbox, and a "SIGN IN" button. Below these, there are links for "Forgot password?" and "Forgot username?". A red box highlights the "ENTERPRISE LOGIN" button, which is located next to the "Sign in with" text. Below this, there are social media login options for Facebook and Google.

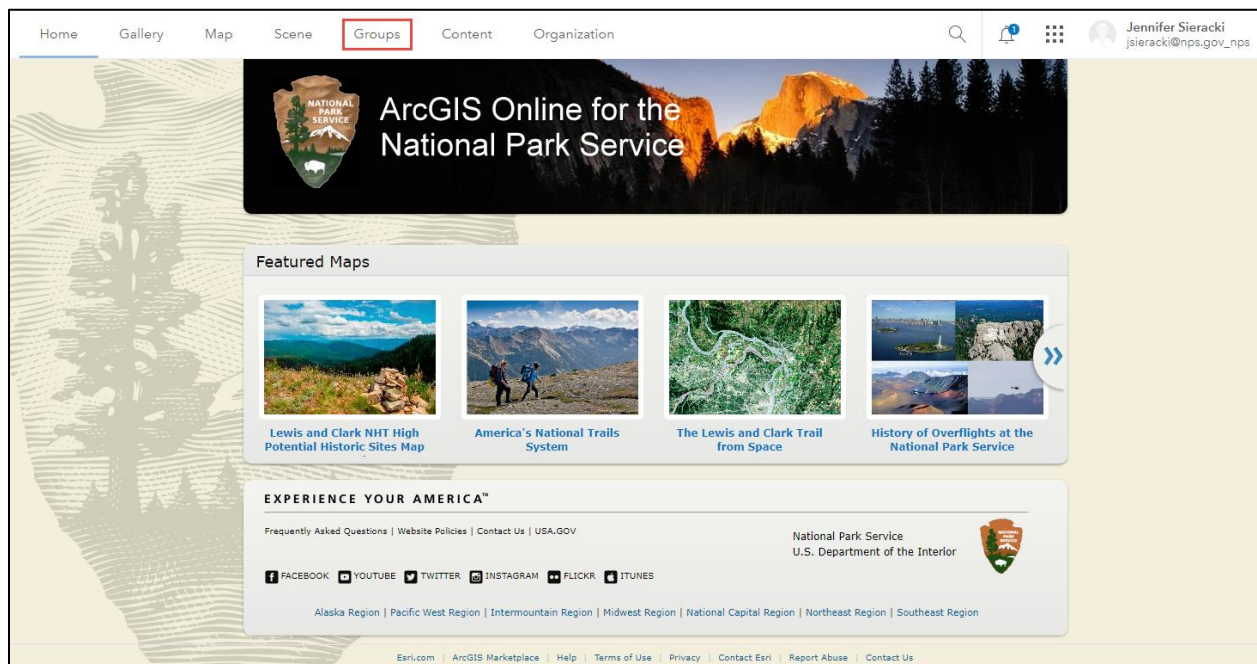
Enter “nps” in the box under “Enter your ArcGIS organization’s URL below.”, and click “Continue”.

The screenshot shows the ArcGIS Sign In page, specifically the "Enter your ArcGIS organization's URL below." step. The top navigation bar is the same as the previous screenshot. The main heading is "Sign In". On the left, the "Need an ArcGIS Public Account?" section is present. On the right, the "Sign In" form is displayed. It includes a text input field for the organization's URL, which is currently filled with "nps". A red box highlights this input field. Below the input field, there are "< BACK" and "CONTINUE" buttons. The "CONTINUE" button is highlighted with a red box. The URL field is followed by ".maps.arcgis.com".

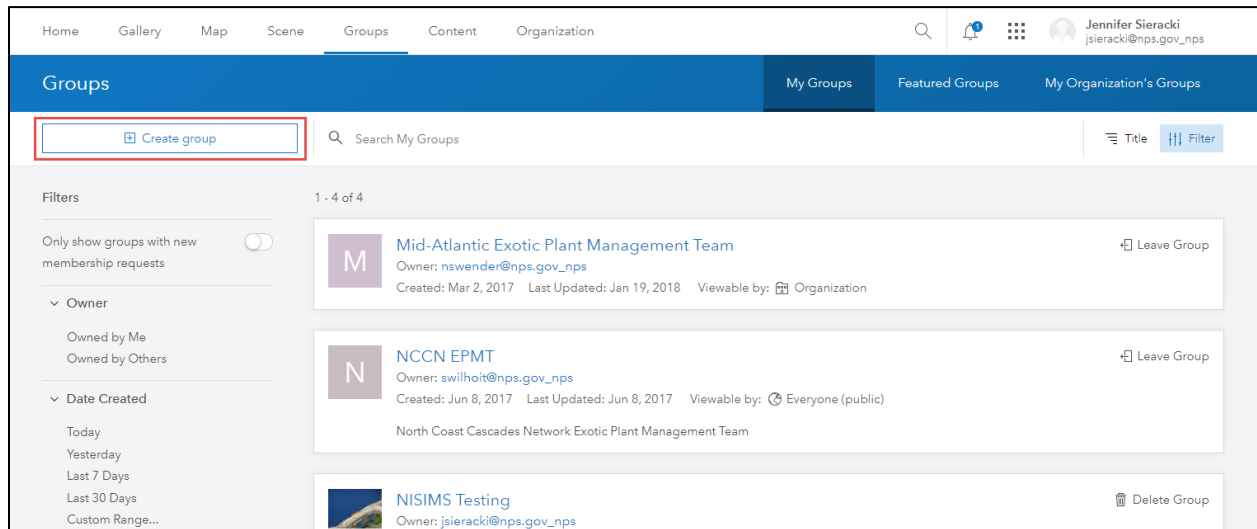
Click “National Park Service” on the next page.



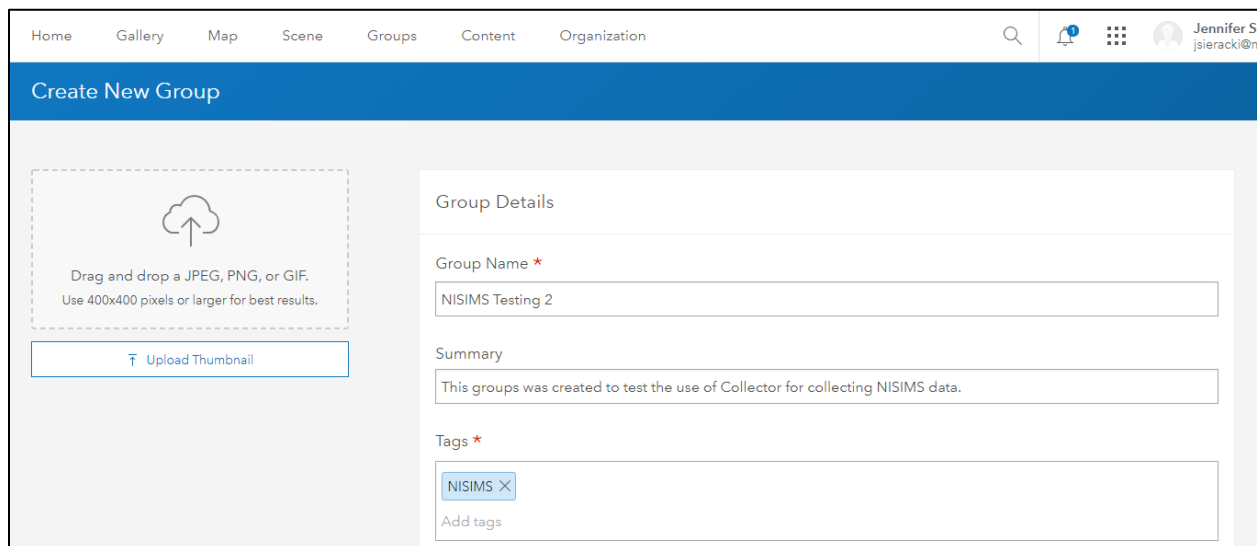
Step 2. Once logged in, click on “Groups” at the top of the web page.



Step 3. On the left-hand side of the screen that opens, click “Create A Group”.



Step 4. In the window that opens, add a Name for your group, a Summary, and at least one Tag.



You may also add a thumbnail by dragging a JPEG, PNG, or GIF file onto the box in the upper-left corner of the screen. In the new window that opens, adjust your image using the Zoom bar, and click OK.

Home Gallery Map Scene Groups Content Organization

Create New Group

Group Details

Group Name *

NISIMS Testing 2

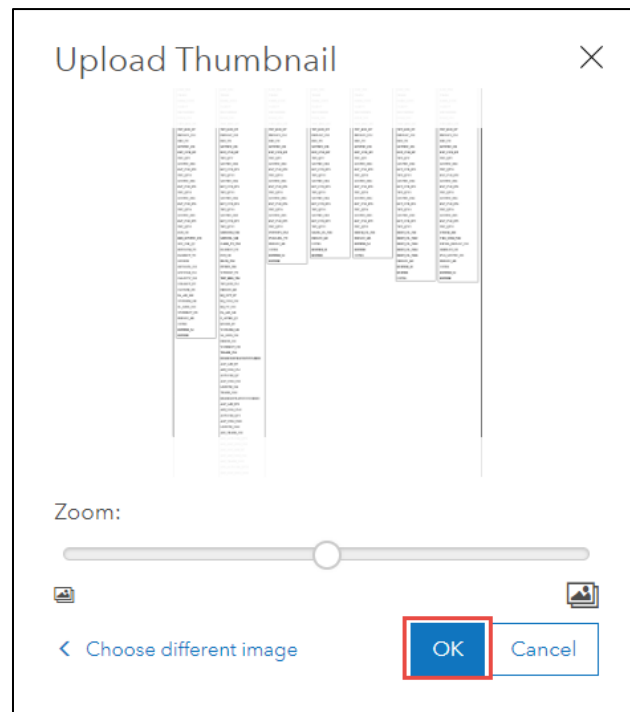
Summary

This groups was created to test the use of Collector for collecting NISIMS data.

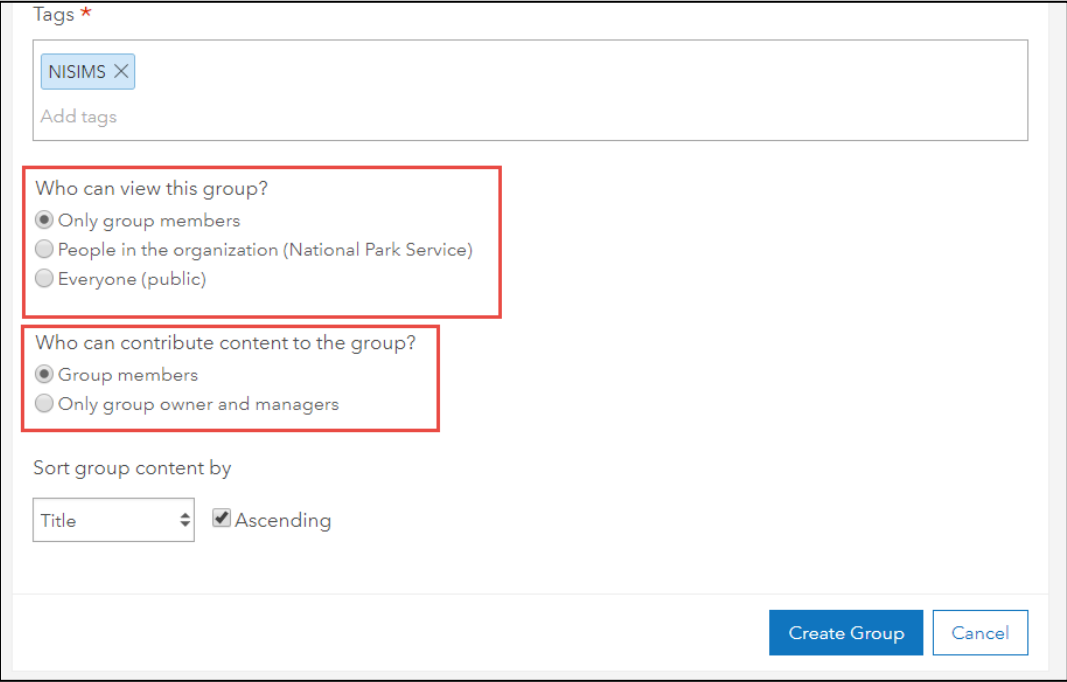
Tags *

Drag and drop a JPEG, PNG, or GIF.
Use 400x400 pixels or larger for best results.

Upload Thumbnail



Select who you would like to be able to view the group. For the purposes of this demonstration, “Only group members” will be used, but you may make your group more widely available if you choose. If you make your group public, you may also decide who will be allowed to join the group. Finally, select who you would like to allow to contribute content to the group



Tags ★

NISIMS X

Add tags

Who can view this group?

☒ Only group members

☐ People in the organization (National Park Service)

☐ Everyone (public)

Who can contribute content to the group?

☒ Group members

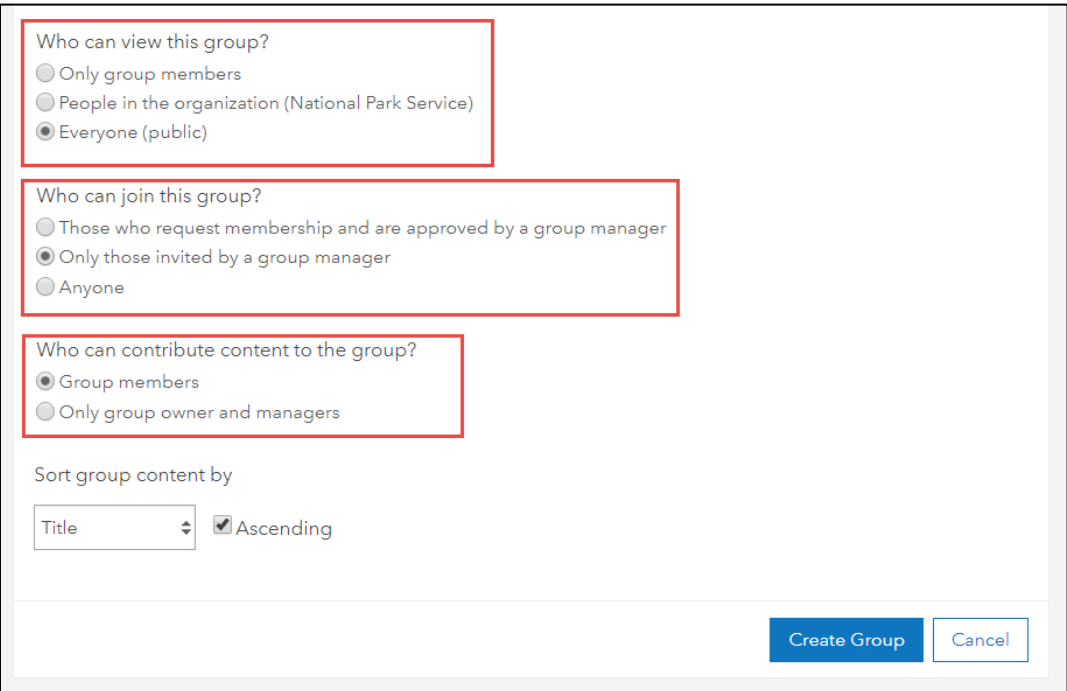
☐ Only group owner and managers

Sort group content by

Title ▾ ☒ Ascending

Create Group Cancel

-- OR FOR PUBLIC --



Who can view this group?

☐ Only group members

☐ People in the organization (National Park Service)

☒ Everyone (public)

Who can join this group?

☐ Those who request membership and are approved by a group manager

☒ Only those invited by a group manager

☐ Anyone

Who can contribute content to the group?

☒ Group members

☐ Only group owner and managers

Sort group content by

Title ▾ ☒ Ascending

Create Group Cancel

Click “Create Group” once all group attributes have been entered.

The screenshot shows a 'Tags' section with a text input containing 'NISIMS' and a close button. Below it is an 'Add tags' input field. The form has two sections for permissions: 'Who can view this group?' with radio buttons for 'Only group members' (selected), 'People in the organization (National Park Service)', and 'Everyone (public)'; and 'Who can contribute content to the group?' with radio buttons for 'Group members' (selected) and 'Only group owner and managers'. There is also a 'Sort group content by' section with a dropdown menu set to 'Title' and a checked 'Ascending' checkbox. At the bottom right, there are two buttons: 'Create Group' (highlighted with a red rectangle) and 'Cancel'.

Your group has been created.

The screenshot shows the 'NISIMS Testing 2' group overview page. The top navigation bar includes 'Overview', 'Content', 'Members', and 'Settings'. The main content area is divided into several sections: 'Edit Thumbnail' with a placeholder image and a description 'This groups was created to test the use of Collector for collecting NISIMS data. owned by jsieracki@nps.gov_nps'; 'Description' with a link to 'Add an in-depth description of the group.'; 'Latest Content' with a placeholder image and the text 'No Items Yet' and a 'View My Content' button; and a right sidebar with 'Invite Users' and 'Share' buttons, 'Membership Requests', 'Details' (showing 'Created: December 13, 2018', 'Viewable by: Everyone (public)', and 'Contributors: Members'), 'Owner' (jsieracki@nps.gov_nps), and 'Tags' (NISIMS).

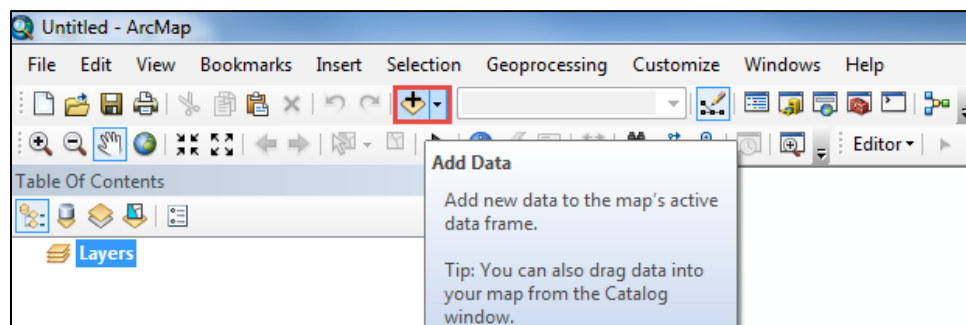
4.3 Adding Feature Classes to Collector

All of the feature classes from the NISIMS field geodatabase may be used to collect NISIMS data in the field with Collector. In order to minimize the size of the maps being viewed on your device, you will first have to set up your map for each day you will be collecting data.

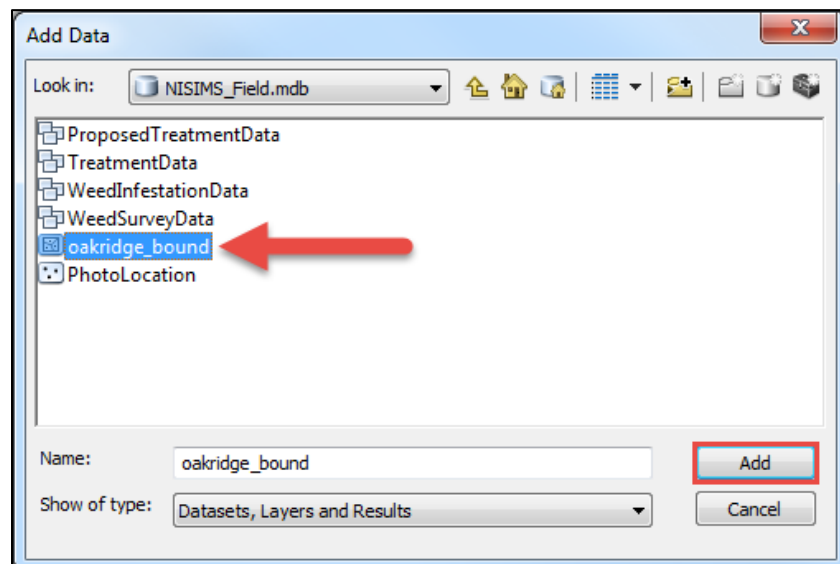
Instructions: Set up your maps for data collection and add to Collector.

Step 1. From your desktop or the “Start Menu”, open “ArcMap”.

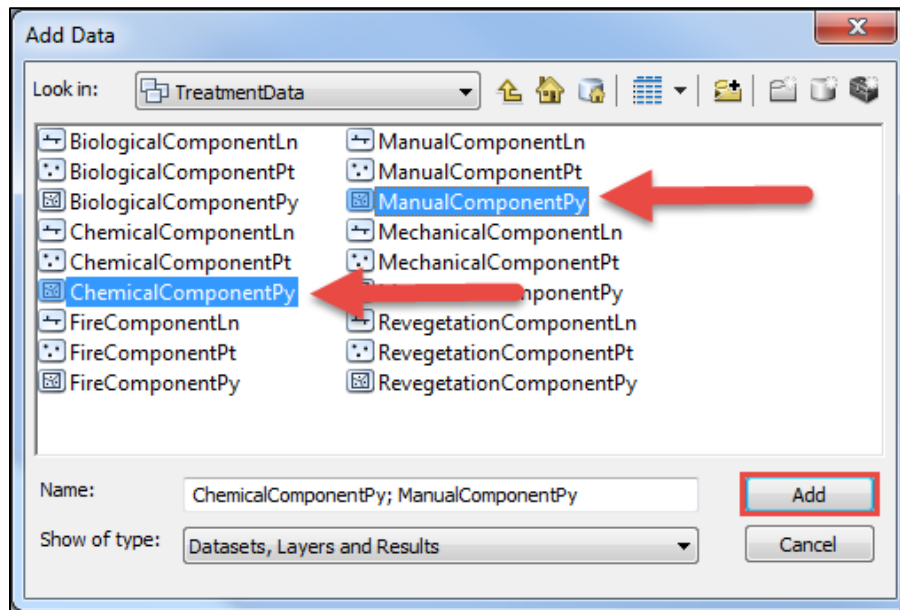
Step 2. Click the “Add Data” button.



Browse to a boundary file to help you zoom in on the location where you will be collecting data. This may be a park boundary or a project boundary that you previously created. Select the boundary file, and click “Add”.

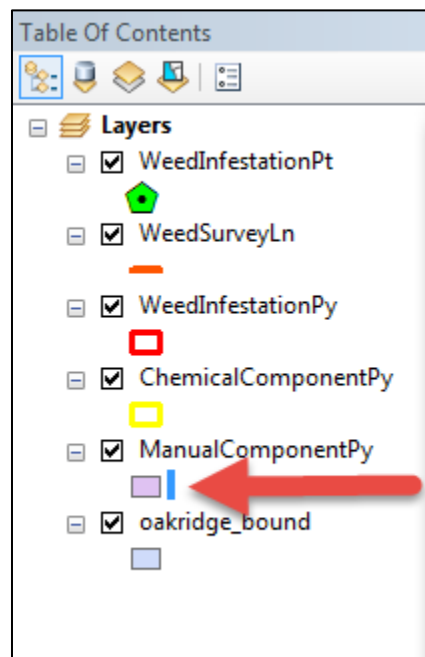


Step 3. Click the “Add Data” button again. This time browse to a NISIMS field geodatabase feature class for which you will be collecting data and click “Add”. You may select more than one feature class holding the Control-key while clicking. Repeat until you have added all feature classes.



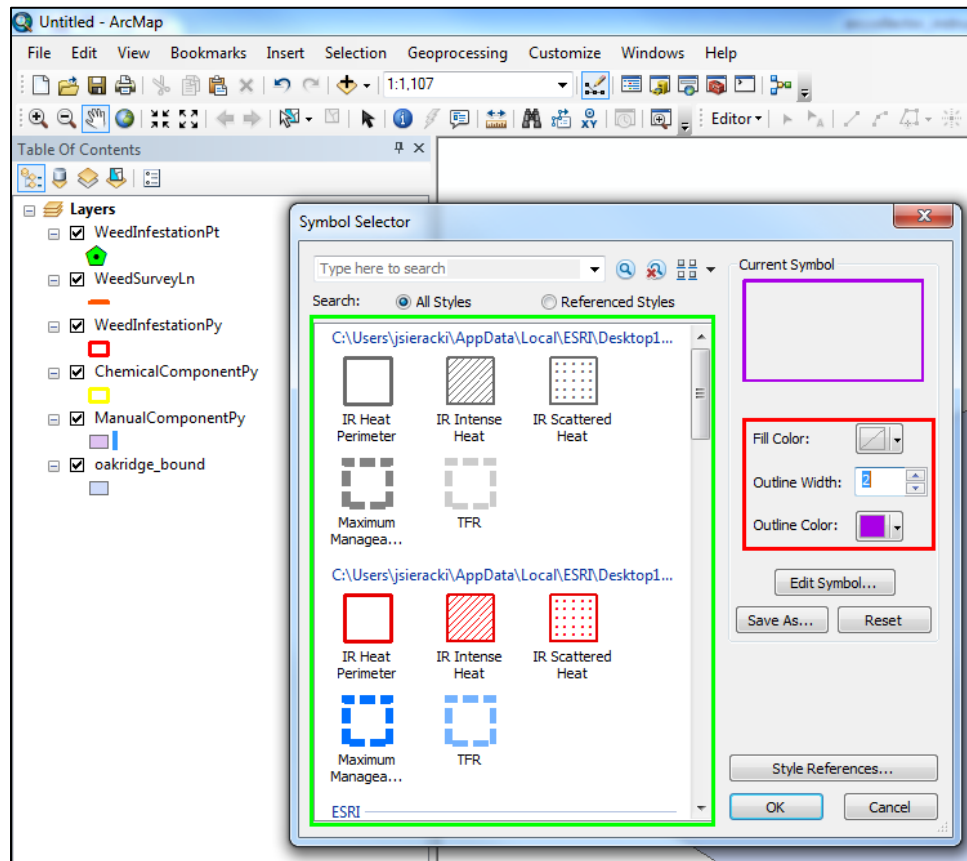
Step 4. Set the symbology of your feature classes so they will be visible and easy to use in the field. I suggest bright colors that will stand out against the aerial images in the background. I also suggest that polygons are made hollow, and that all lines are made thicker.

Double-click the symbol under the name of a feature class.



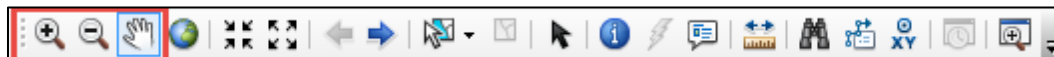
Double-click the icon
below the feature class
name

In the “Symbol Selector” window, you may change the style of your symbol in the box on the left (green box below), and the Fill Color, Outline Width, and Outline Color on the right panel (red box below). Available options will be different for each feature type (i.e. point, line, polygon). Once finished, click OK.

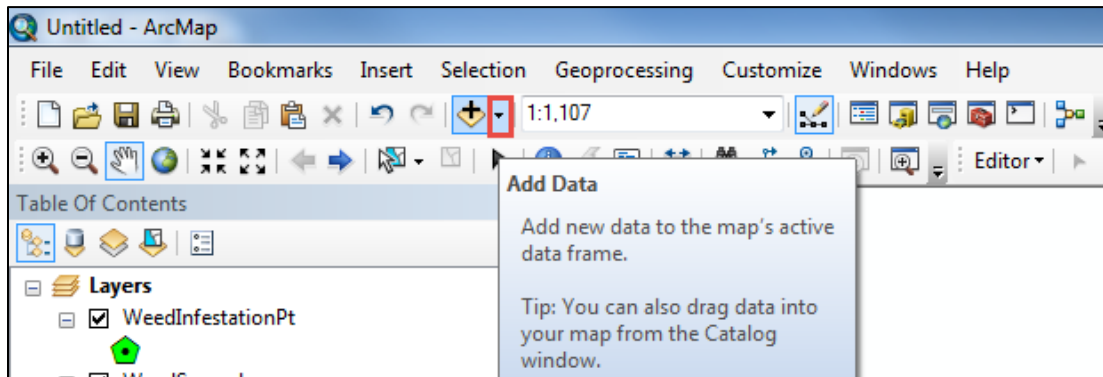


Repeat until all symbols meet your satisfaction. It is best to test your symbols on your device prior to collecting data in the field, as they may be difficult to see under certain conditions.

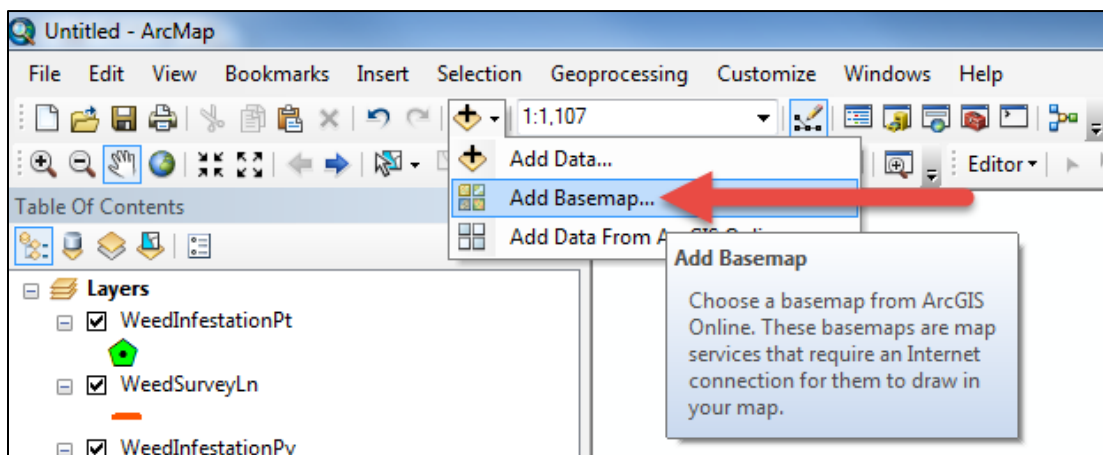
Step 5. Using the “Zoom In”, “Zoom Out”, and “Pan” buttons, adjust the view to the extent of the area where you will be collecting data. The location of this toolbar will vary. Be sure to include all areas where you may potentially collect data. It may help to add a basemap.



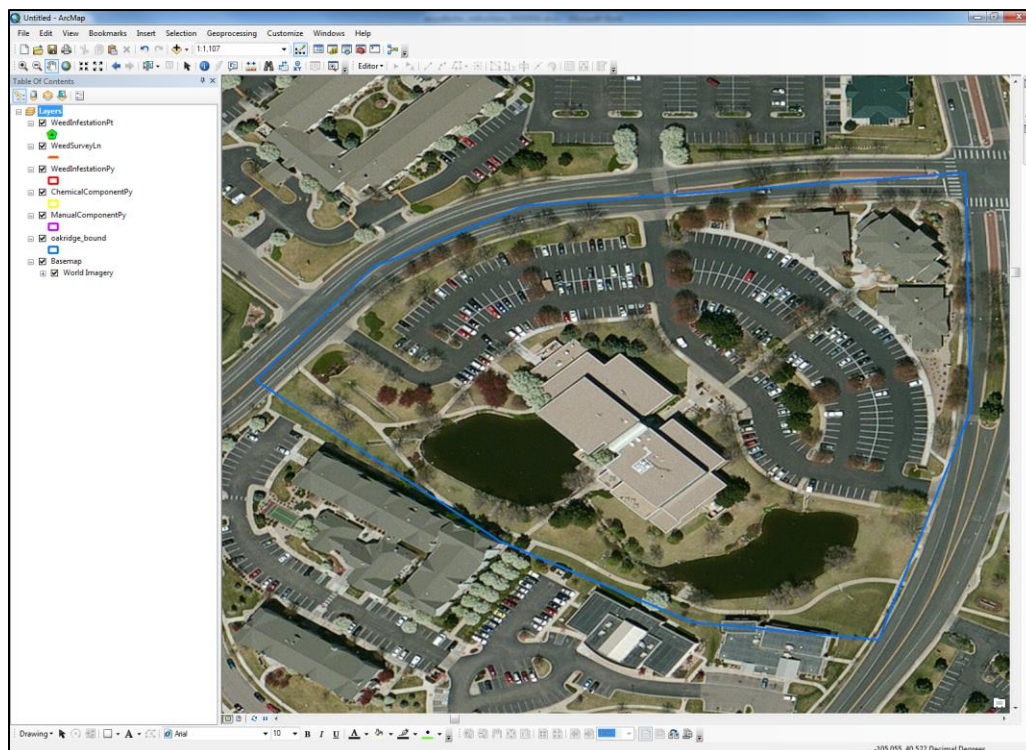
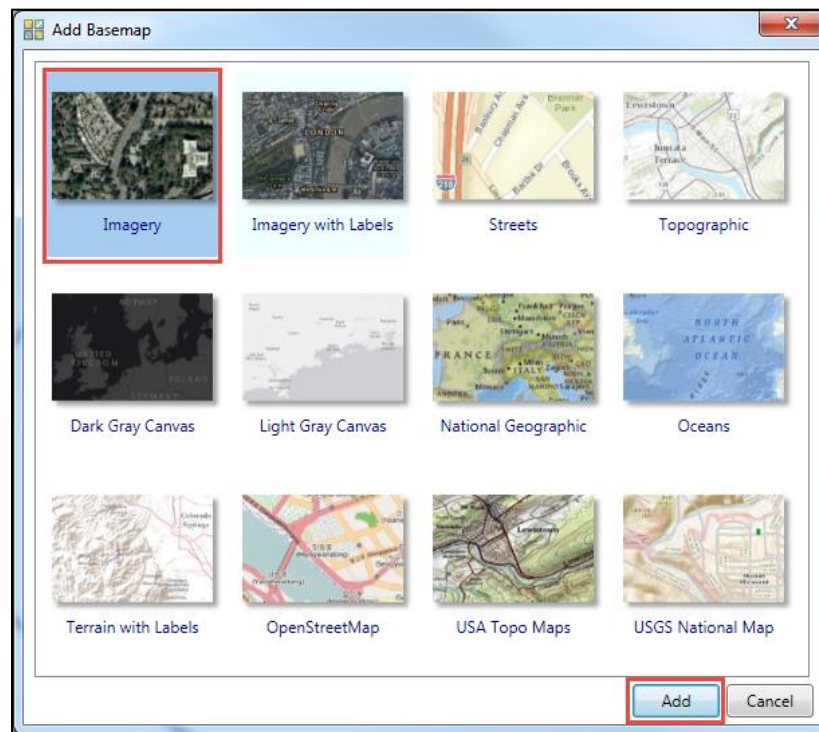
To add a basemap, click the arrow next to the “Add Data” button.



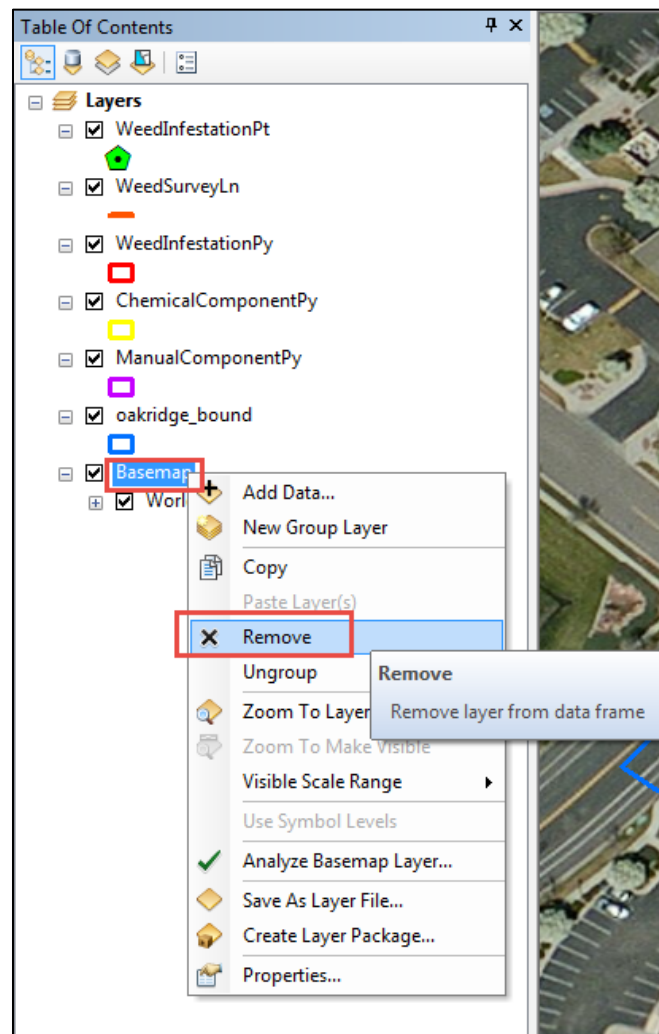
Select “Add Basemap...”.



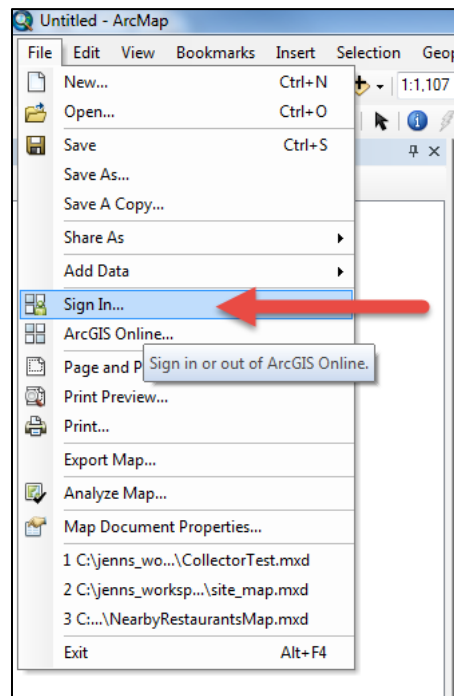
In the window that opens, select the basemap you would like to add and click “Add”. Depending on your computer, connection speed, and map extent the image may take several minutes to load.



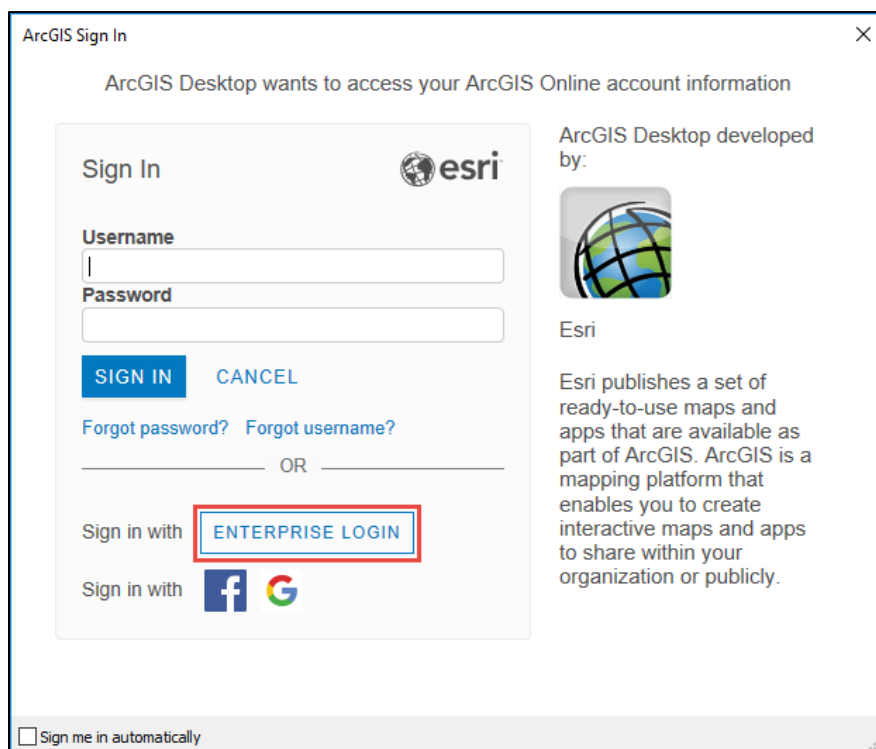
Once you are happy with the map extent, remove the basemap layer by right-clicking on “Basemap” in the Table of Contents, and selecting “Remove”.



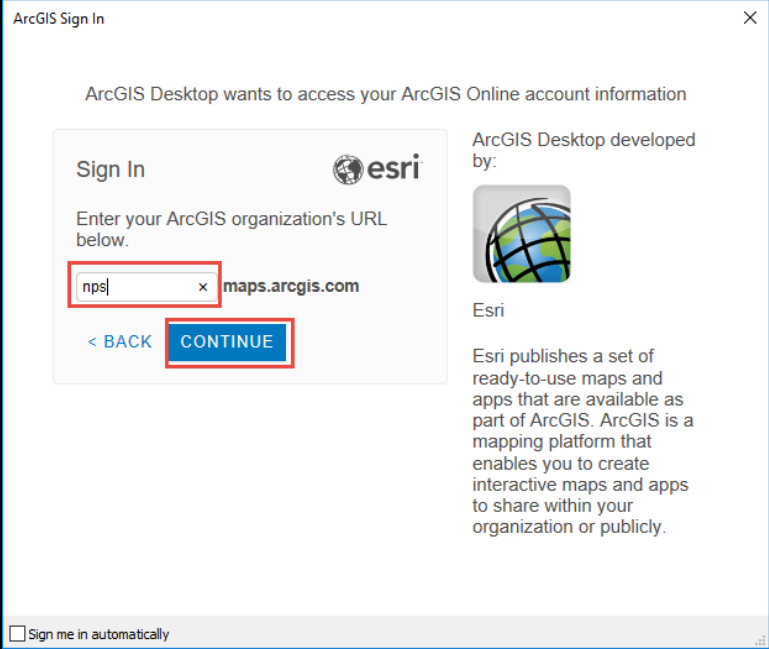
Step 6. Open the File menu, and select “Sign In...”.



Click the “Enterprise Login” button.



Enter NPS in the empty box under “Enter your ArcGIS organization’s URL below.”, and click “Continue”.



ArcGIS Sign In

ArcGIS Desktop wants to access your ArcGIS Online account information

Sign In 

Enter your ArcGIS organization's URL below.

nps| x maps.arcgis.com

< BACK CONTINUE

ArcGIS Desktop developed by:

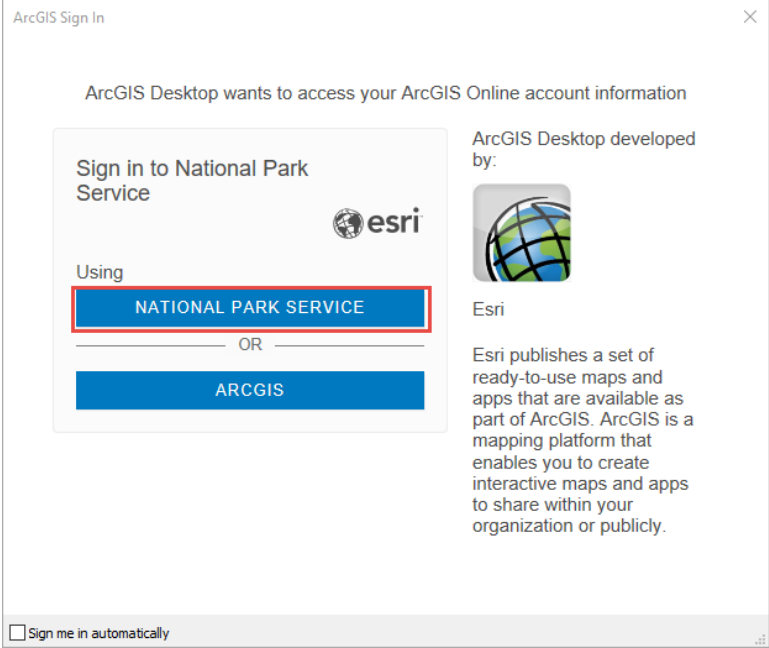


Esri

Esri publishes a set of ready-to-use maps and apps that are available as part of ArcGIS. ArcGIS is a mapping platform that enables you to create interactive maps and apps to share within your organization or publicly.

☐ Sign me in automatically

Finally, select “National Park Service”.



ArcGIS Sign In

ArcGIS Desktop wants to access your ArcGIS Online account information

Sign in to National Park Service 

Using

NATIONAL PARK SERVICE

OR

ARCGIS

ArcGIS Desktop developed by:

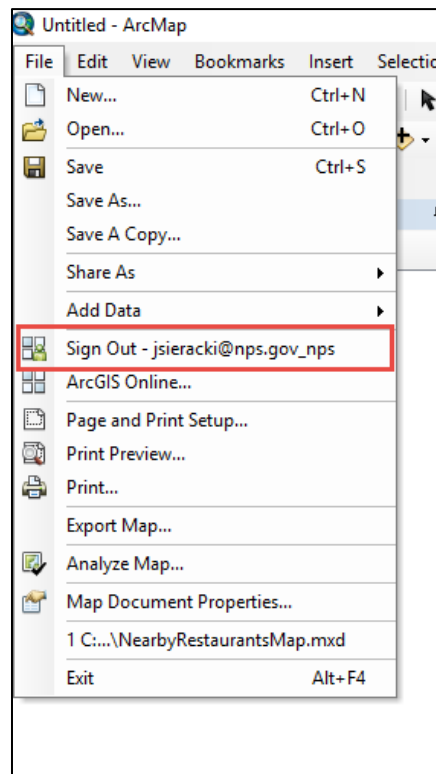


Esri

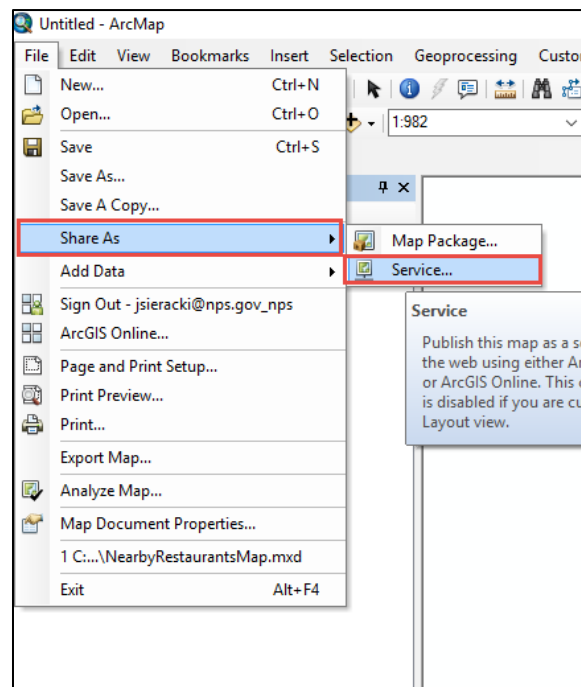
Esri publishes a set of ready-to-use maps and apps that are available as part of ArcGIS. ArcGIS is a mapping platform that enables you to create interactive maps and apps to share within your organization or publicly.

☐ Sign me in automatically

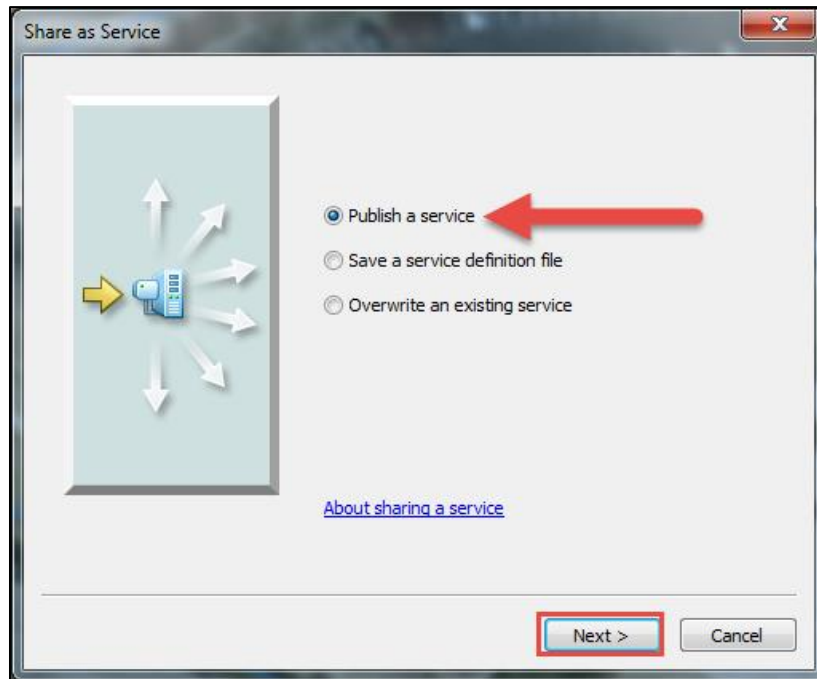
Check that you are signed in from the File menu.



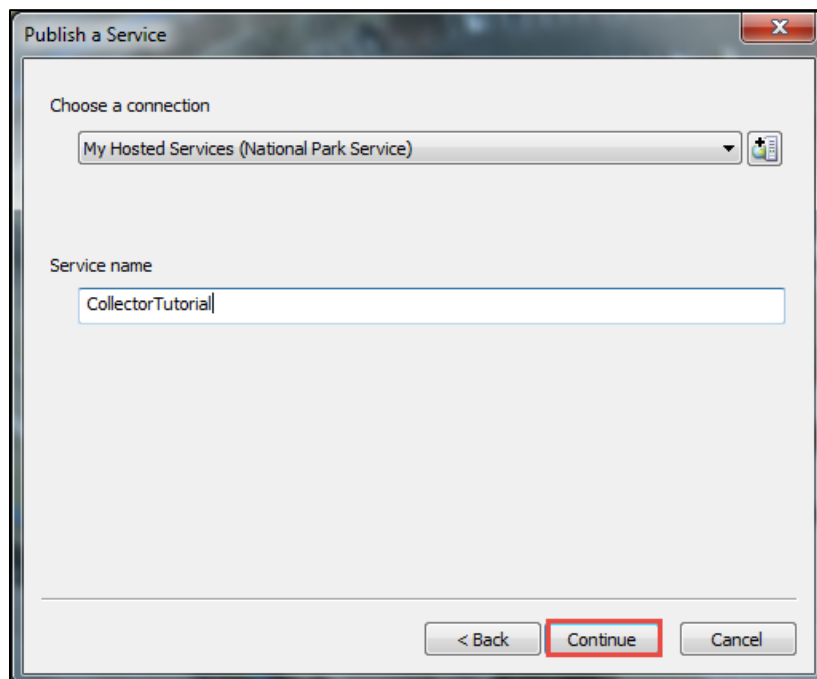
Step 7. From the File menu, hover over “Share As”, then select “Service”.



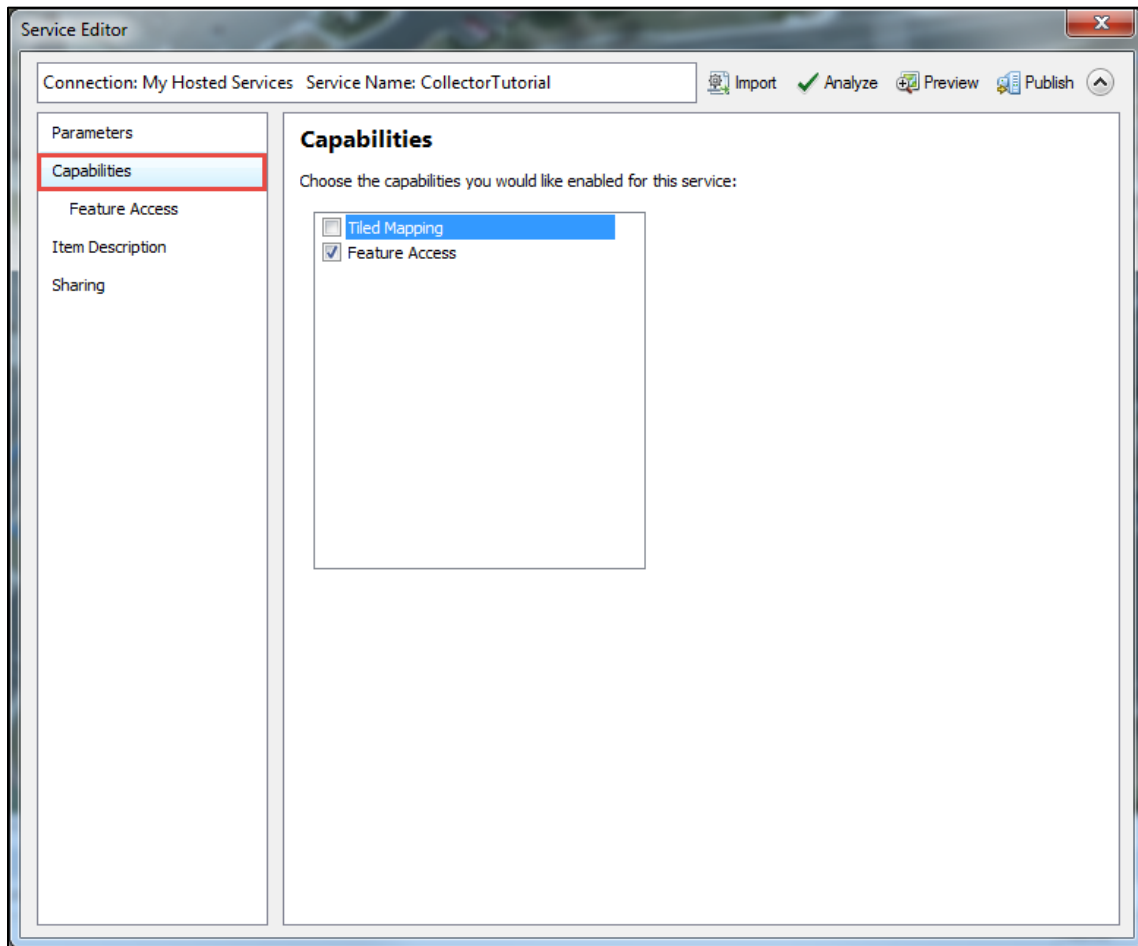
In the window that opens, select “Publish a service” and click Next.



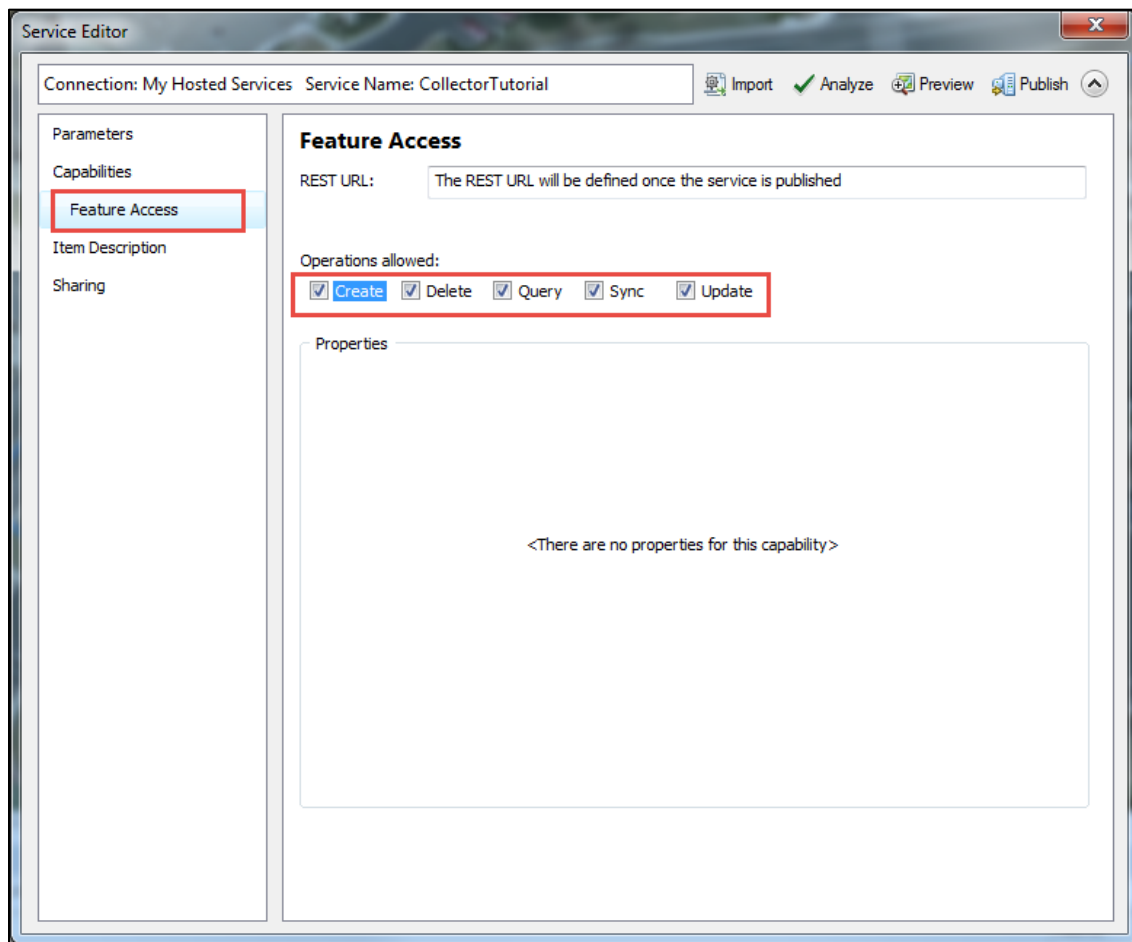
In the next window, under “Choose a connection”, select “My Hosted Services (National Park Service)” from the drop-down menu. Provide a name under “Service name” (no spaces). Click Continue.



In the next window, click on “Capabilities” in the left pane. Click “Feature Access” and un-click “Tiled Mapping” in the right pane.



Click “Feature Access” in the left pane. In the right pane, check all of the boxes in under “Operations allowed”.



Click “Item Description” in the left pane. In the right pane, enter a Summary of what the layers represent and add at least one Tag (required items highlighted in yellow below). You may also add additional information to the remaining text boxes as needed or desired.

The screenshot shows the 'Service Editor' window. The left sidebar contains a list of tabs: Parameters, Capabilities, Feature Access, Item Description (highlighted with a red border), and Sharing. The main area is titled 'Item Description' and contains several text input fields and a checkbox. The 'Summary (required):' field contains the text 'These layers are being uploaded to demonstrate the use of Collector.' The 'Tags (required):' field contains the tag 'NISIMS'. Below the tags is a button labeled 'Choose Your Tags...'. The 'Description:' field contains the text 'You may add a more in-depth description of your layers here.' The 'Access and Use Constraints:' field contains the text 'These layers are only for demonstration purposes.' The 'Credits:' field is empty. At the bottom, there is a checkbox labeled 'Update missing metadata in document based on item description.' which is checked.

Service Editor

Connection: My Hosted Services Service Name: CollectorTutorial

Import Analyze Preview Publish

Parameters
Capabilities
Feature Access
Item Description
Sharing

Item Description

Summary (required):
These layers are being uploaded to demonstrate the use of Collector.

Tags (required):
NISIMS

Choose Your Tags...

Description:
You may add a more in-depth description of your layers here.

Access and Use Constraints:
These layers are only for demonstration purposes.

Credits:

☒ Update missing metadata in document based on item description.

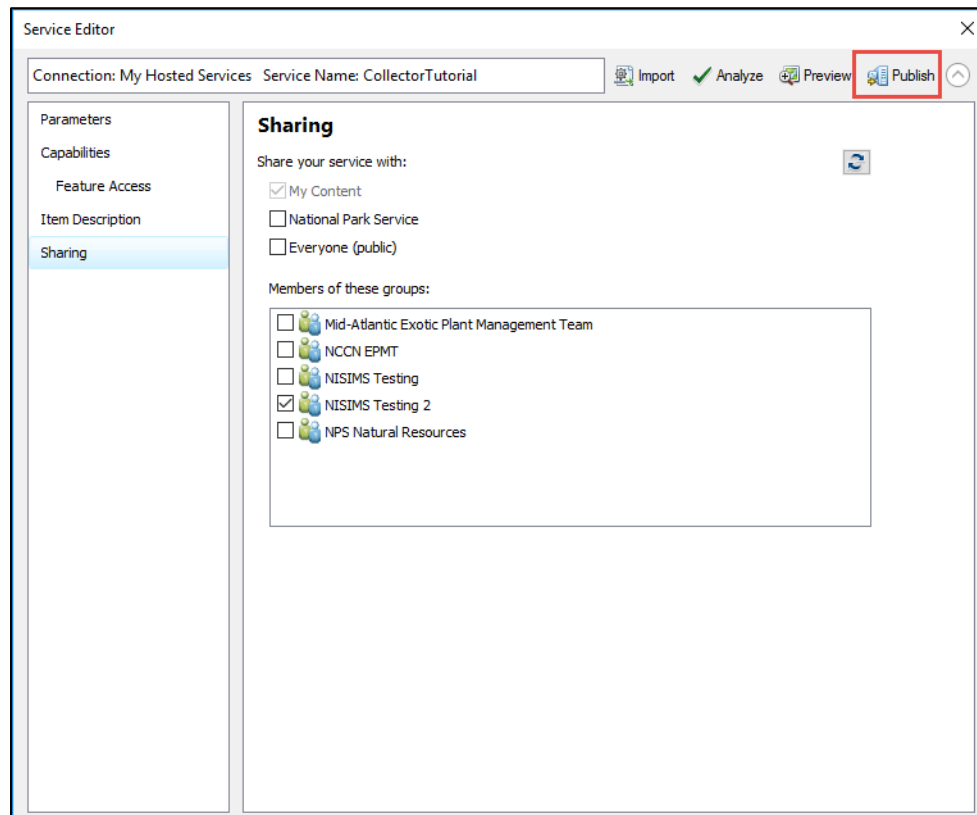
Click “Sharing” in the left pane. You may choose to share your data with the National Park Service, or everyone with an ArcGIS Online account. At the very least, you must share your data with the group you created in the previous step.

The screenshot shows the 'Service Editor' window with the 'Sharing' tab selected in the left-hand navigation pane. The main area is titled 'Sharing' and contains the following elements:

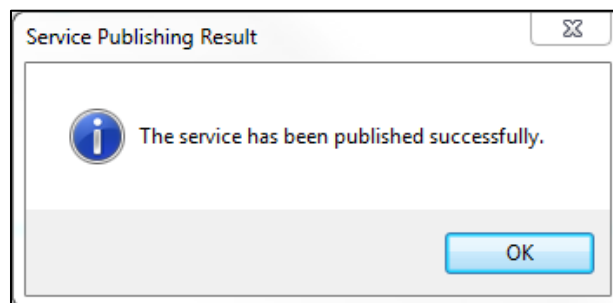
- Share your service with:** A section with three checkboxes:
 - ☒ My Content
 - ☐ National Park Service
 - ☐ Everyone (public)
- Members of these groups:** A list of groups with checkboxes:
 - ☐ Mid-Atlantic Exotic Plant Management Team
 - ☐ NCCN EPMT
 - ☐ NISIMS Testing
 - ☒ NISIMS Testing 2
 - ☐ NPS Natural Resources

Red boxes highlight the 'Sharing' tab in the left pane and the 'NISIMS Testing 2' group in the list.

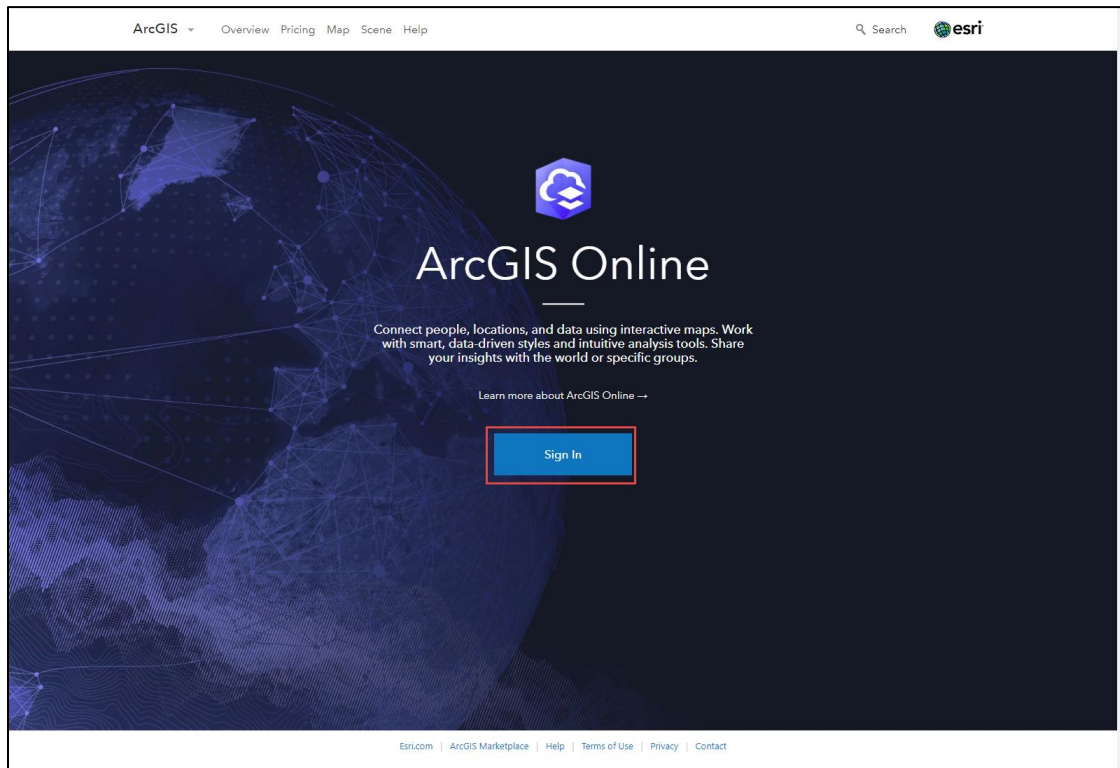
Once changes have been made to “Capabilities”, “Item Description”, and “Sharing”, click “Publish” in the top right-hand corner. This may take several minutes depending on the size of your map extent or the speed of your internet connection.



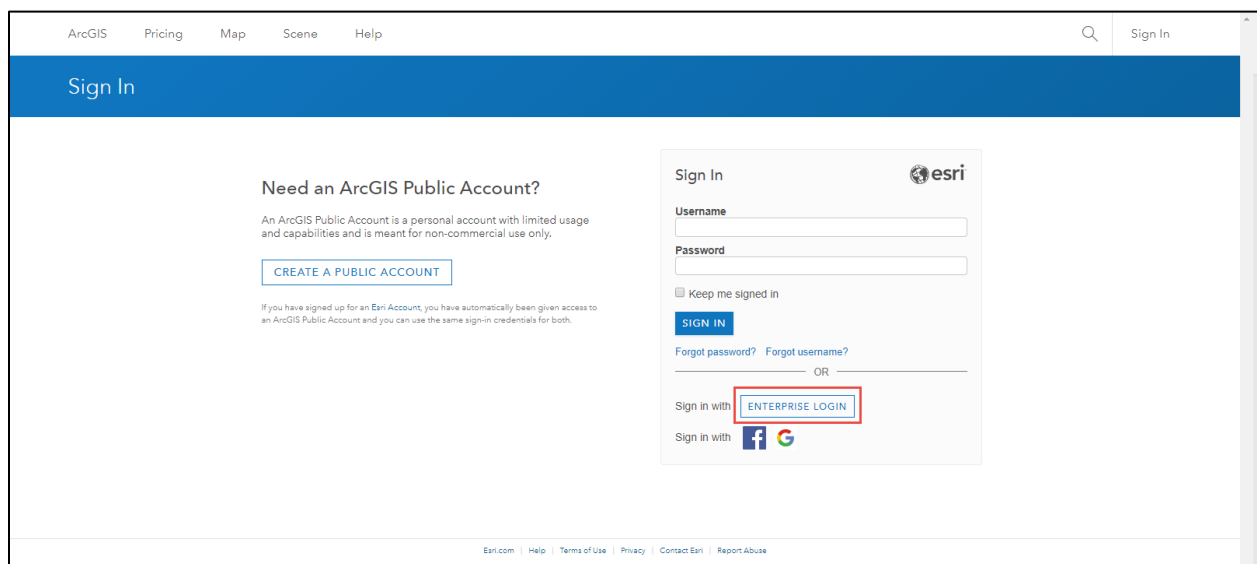
A new window will open once the data is published telling you the service was published successfully. Click “OK”.



Step 8. Go to www.arcgis.com, and click “Sign In”.



On the right-hand side of the screen that opens, click the “Enterprise Login” button.



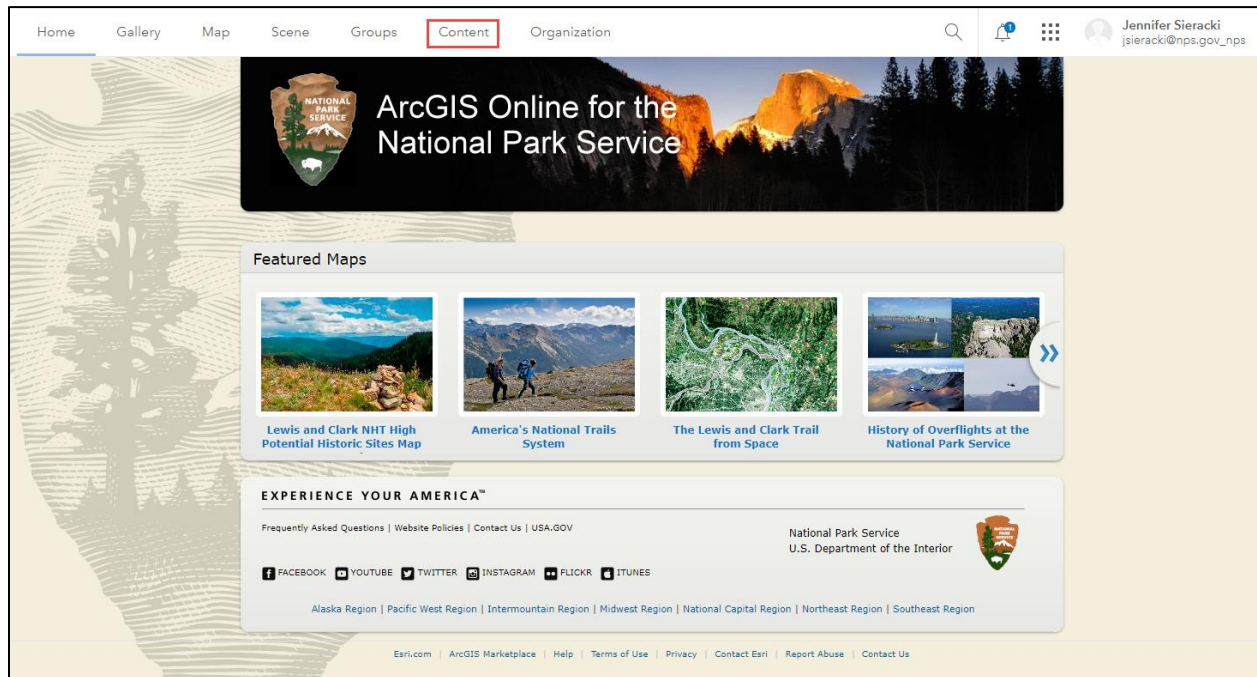
Enter “nps” in the box under “Enter your ArcGIS organization’s URL below.”, and click “Continue”.

The screenshot shows the ArcGIS Sign In page. The top navigation bar includes links for ArcGIS, Pricing, Map, Scene, and Help, along with a search icon and a Sign In link. A blue header bar contains the text "Sign In". The main content area is divided into two sections. On the left, under the heading "Need an ArcGIS Public Account?", there is a paragraph explaining that an ArcGIS Public Account is a personal account with limited usage and capabilities, intended for non-commercial use only. Below this text is a button labeled "CREATE A PUBLIC ACCOUNT". On the right, under the heading "Sign In", there is a text prompt "Enter your ArcGIS organization's URL below." followed by an input field containing "nps" and a ".maps.arcgis.com" suffix. A red box highlights the input field. Below the input field are two buttons: "< BACK" and "CONTINUE", with the "CONTINUE" button highlighted by a red box. The footer contains links for Esri.com, Help, Terms of Use, Privacy, Contact Esri, and Report Abuse.

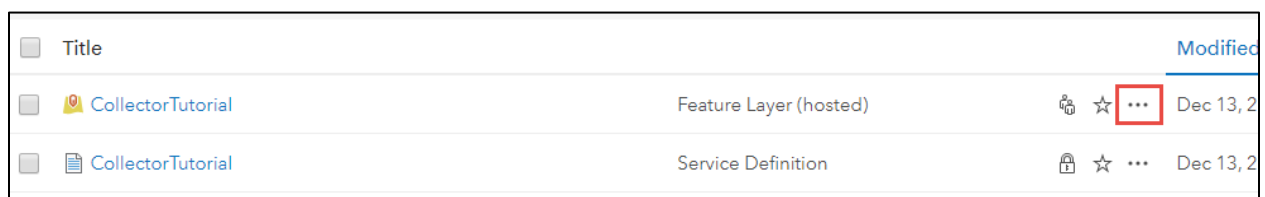
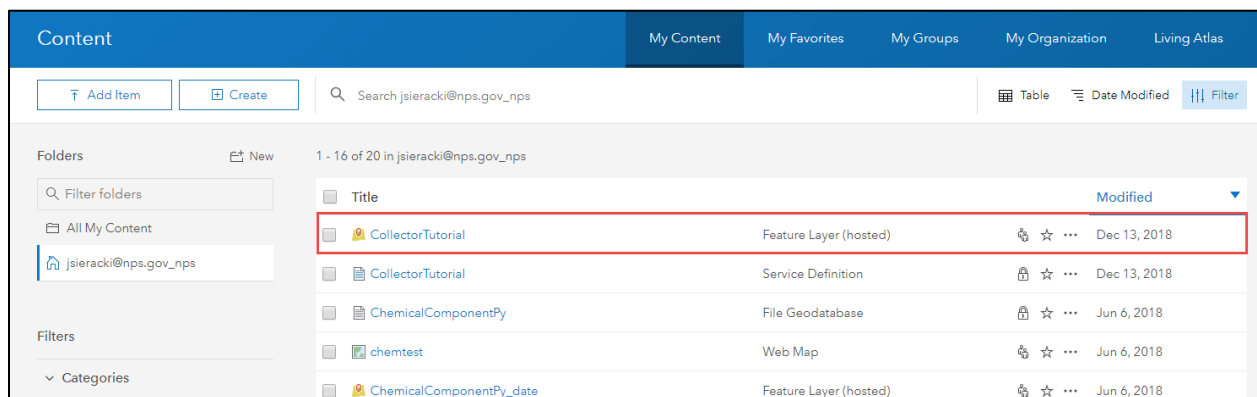
Click “National Park Service” on the next page.

The screenshot shows the ArcGIS Sign In page, specifically the "Sign in to National Park Service" section. The top navigation bar and blue header bar are identical to the previous screenshot. The main content area is divided into two sections. On the left, under the heading "Need an ArcGIS Public Account?", there is a paragraph explaining that an ArcGIS Public Account is a personal account with limited usage and capabilities, intended for non-commercial use only. Below this text is a button labeled "CREATE A PUBLIC ACCOUNT". On the right, under the heading "Sign in to National Park Service", there is a text prompt "Using:" followed by two buttons: "NATIONAL PARK SERVICE" and "ARCgis". The "NATIONAL PARK SERVICE" button is highlighted by a red box. Below the buttons is an "OR" separator. The footer contains links for Esri.com, Help, Terms of Use, Privacy, Contact Esri, and Report Abuse.

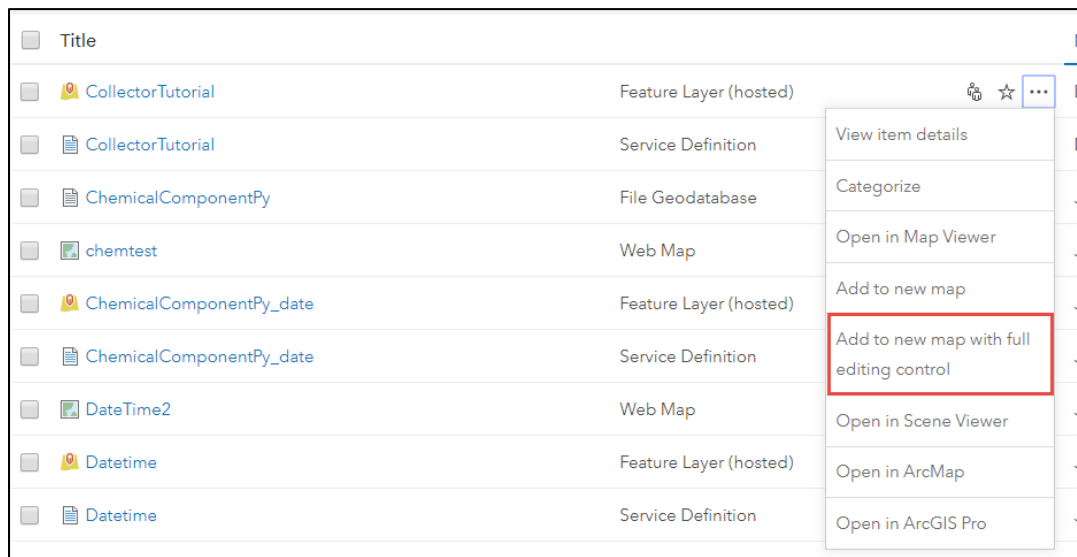
Step 9. Once logged in, select “Content” from the top of the webpage.



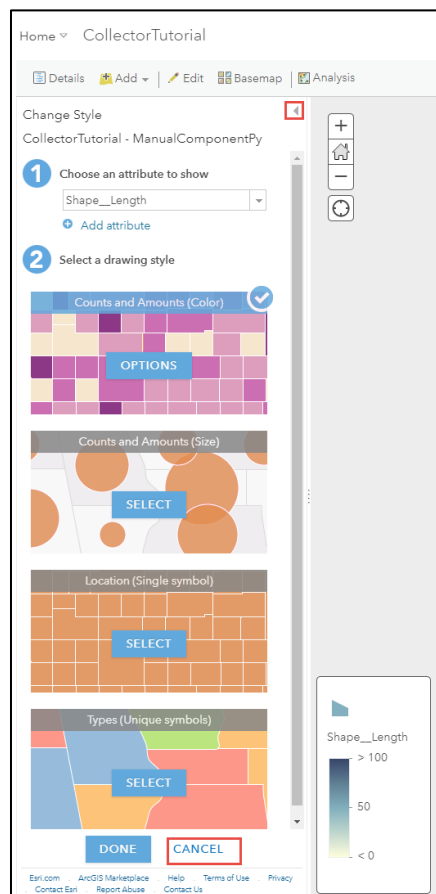
Step 10. From the list of files, find the feature layer you just created in ArcMap and select the ellipses on the right end of its record.



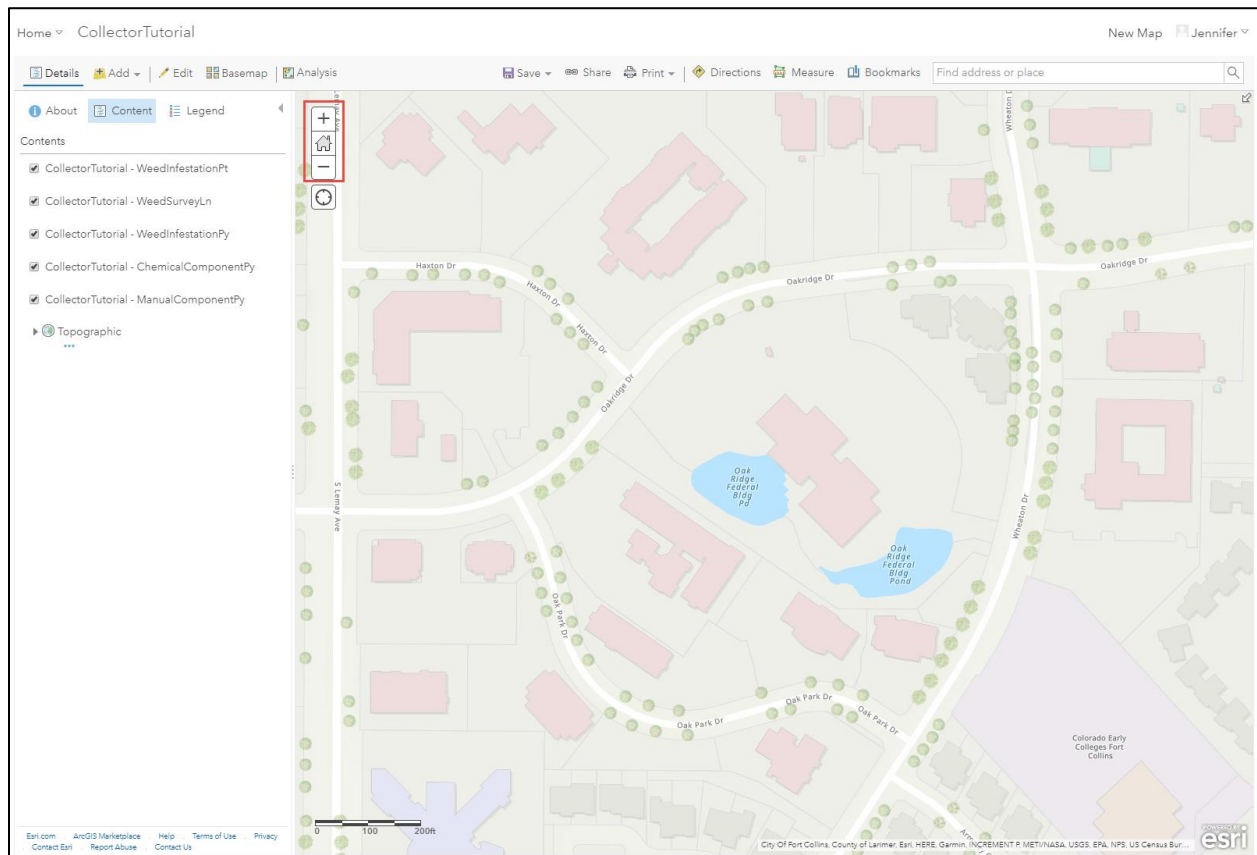
From the menu that opens, select “Add to new map with full editing control”.



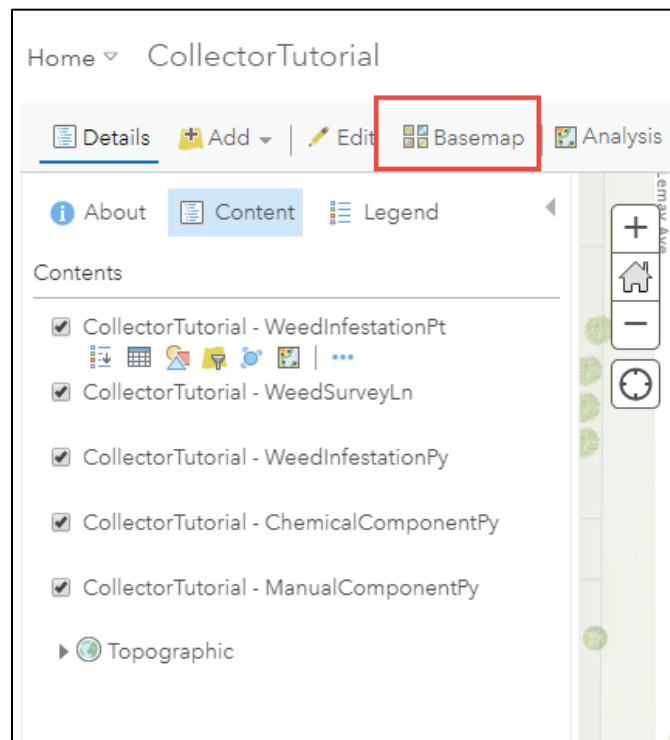
Step 11. The system may ask you to change styles first. You may bypass this by clicking the left point arrow at the top of the left side panel, or “Cancel” at the bottom of the panel.



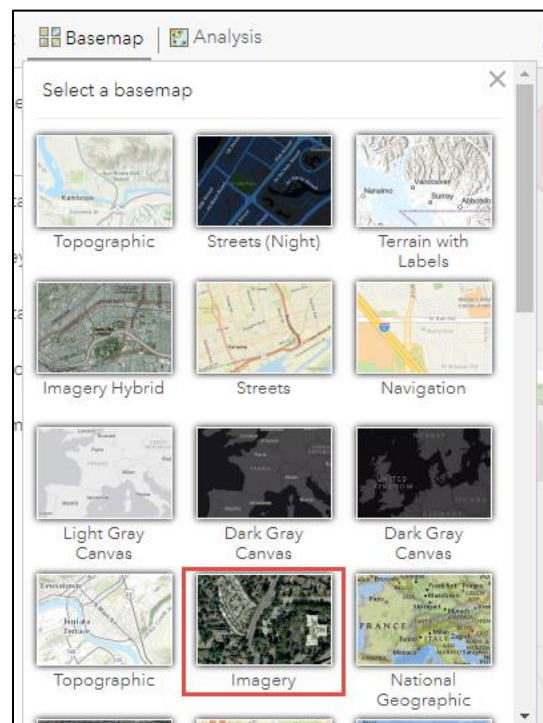
You may adjust the extent of the map using the buttons in the upper left hand corner of the map view, and may pan by clicking and holding somewhere inside the map view, and using the hand symbol that appears to drag the map until it is centered on the project area.



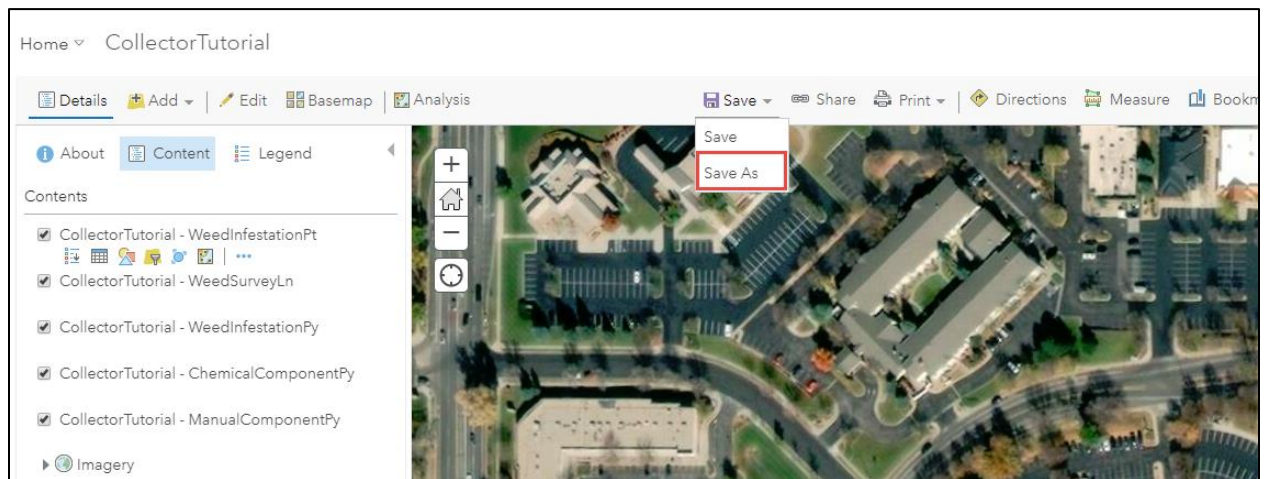
You may also change the basemap by clicking “Basemap” in the menu above the contents and the map view.



In the menu that pops open, select the basemap you would like to use.



Step 12. Once you are happy with your map, click Save from the top menu bar and select “Save As”.



In the window that opens, enter a “Title”, “Tags”, and “Summary” for your map. Click “Save Map” when done.

Save Map

Title: CollectorTutorialMap2

Categories: + Assign Category

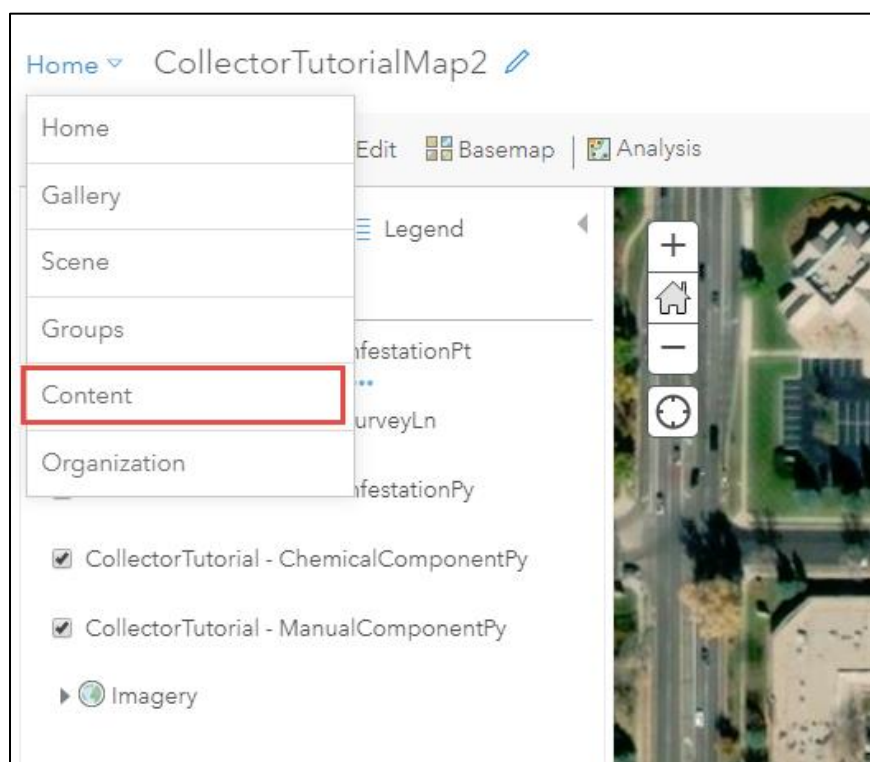
Tags: NISIMS x Add tags

Summary: This map contains NISIMS feature classes used in the Colled

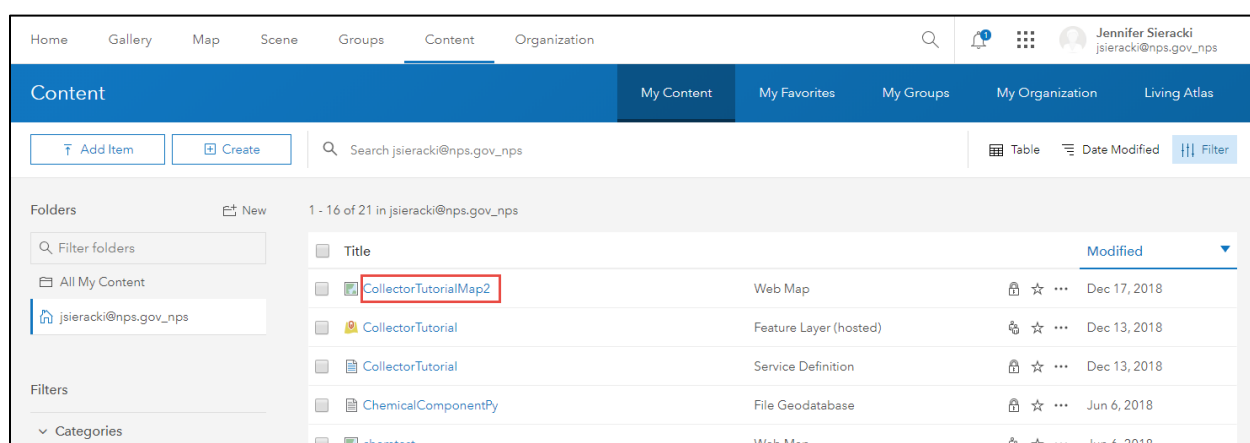
Save in folder: jsieracki@nps.gov_nps

SAVE MAP CANCEL

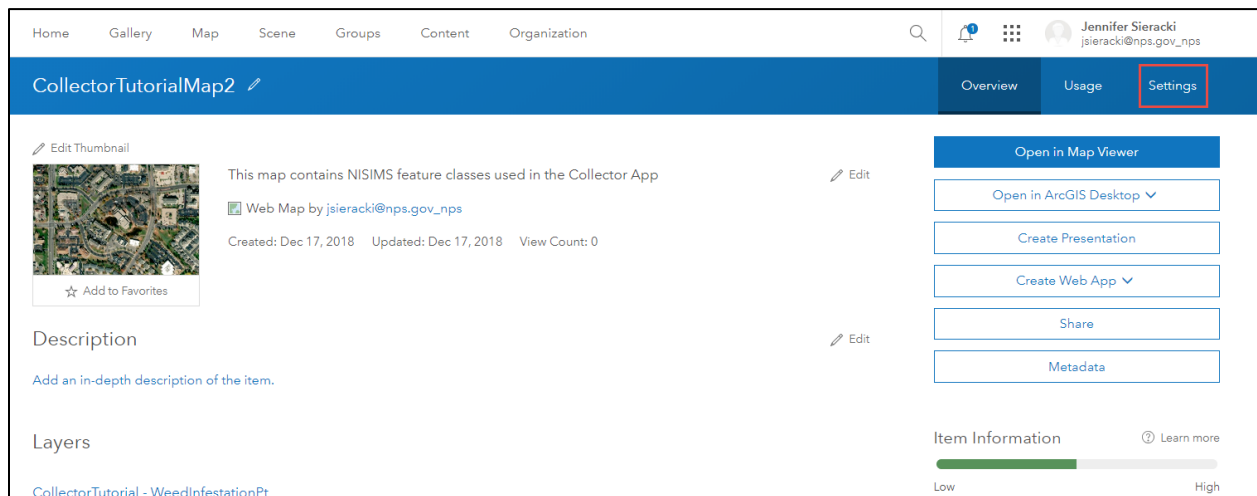
Step 13. Click “Home” in the upper left hand corner of the screen and select “Content” from the drop-down menu.



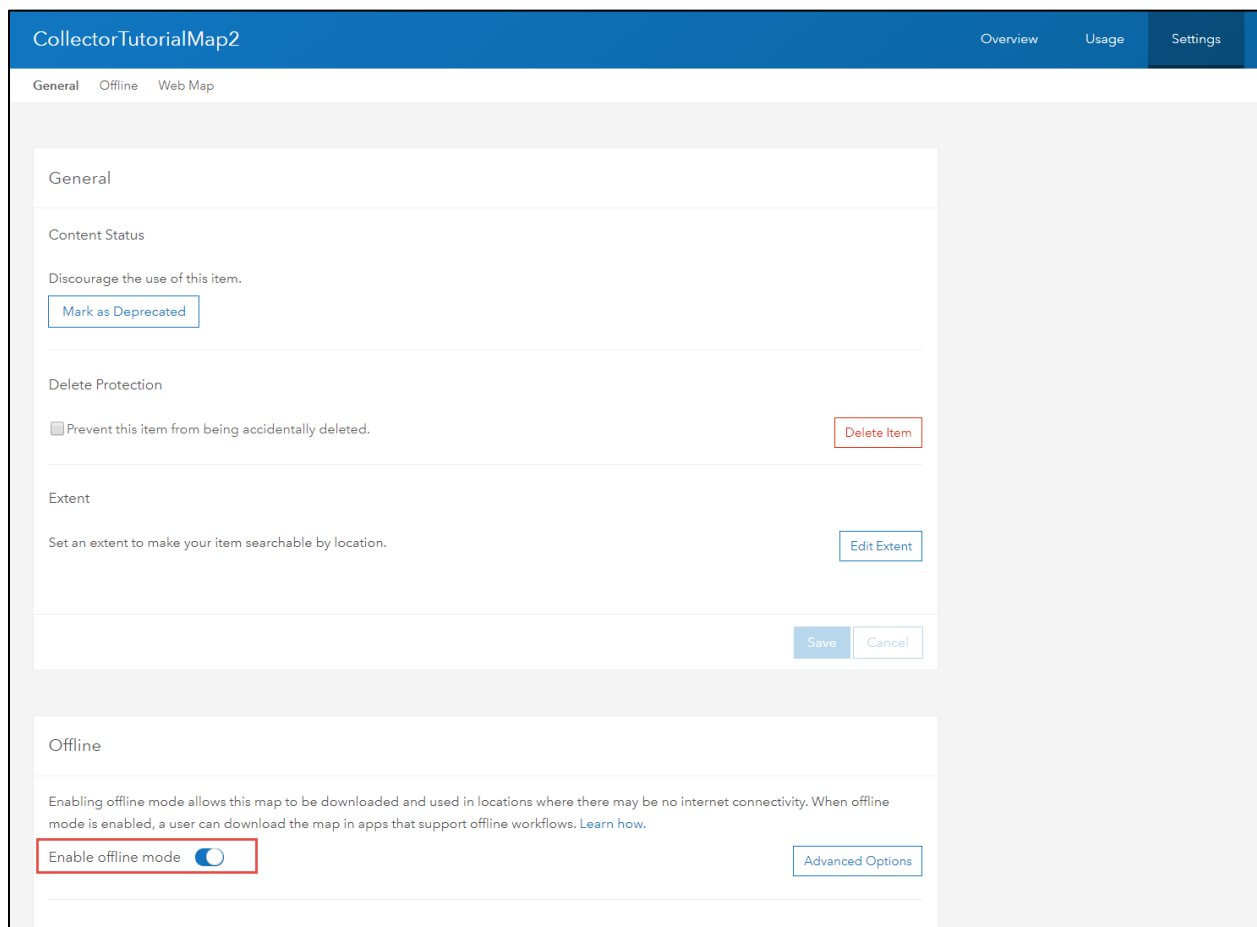
Step 14. From your “Content” page, click on the title of the web map you just created.



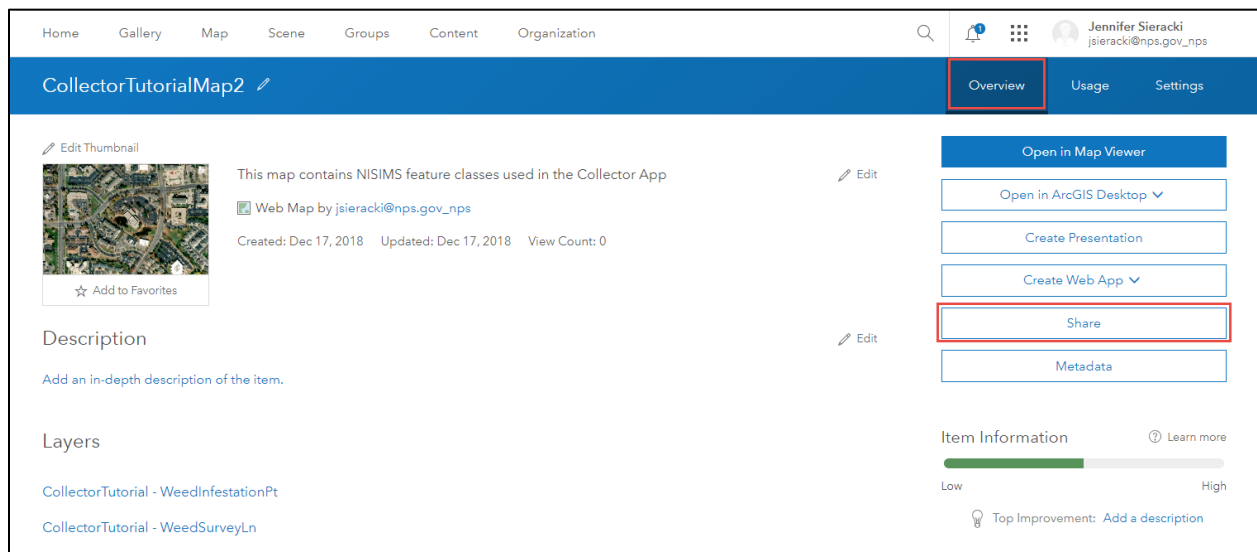
Step 15. Click the “Settings” tab in the upper-right corner of the new page that opens.



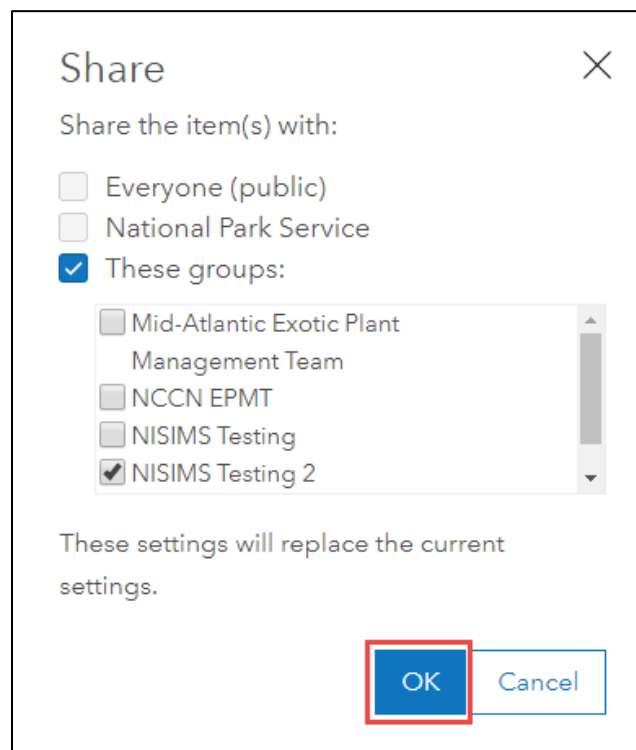
Under the “Settings” tab, ensure that the on/off control next to Enable offline mode is set to on (hint: it will be blue, with the white circle on the right.)



Step 16. Return to the map overview page by clicking the “Overview” tab. Click “Share” on the right side of the screen.



In the window that opens, check the boxes next to who you want to share your map. Be sure to check the group that you created. Click “OK” when done.



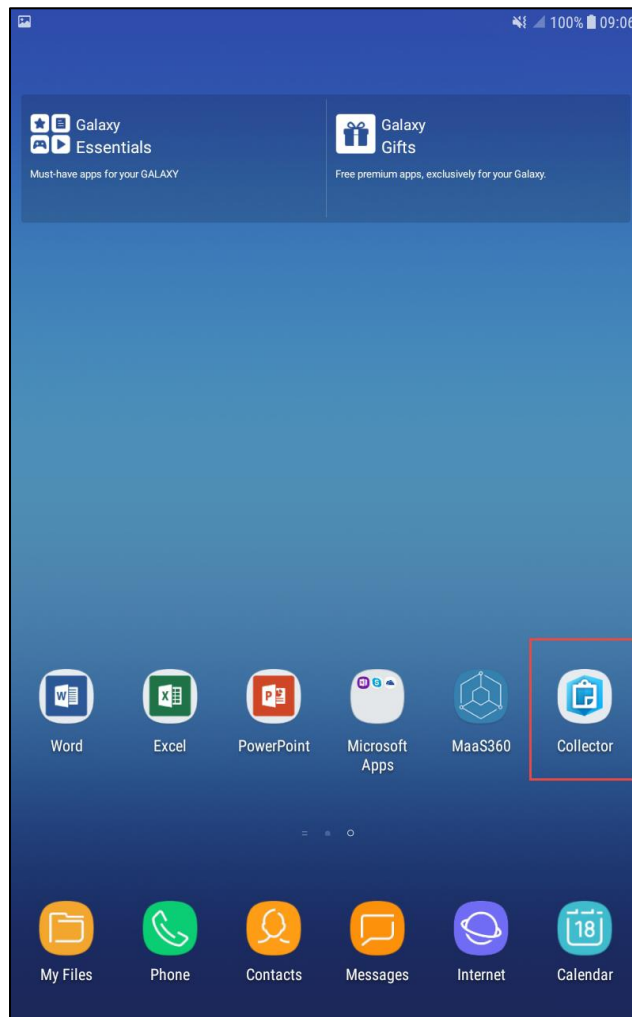
Your map is now available to work with in the field. You may check to ensure that it has been added to your group by selecting “Groups” from the menu at the top of the page, and selecting your group from the list.

4.4 Collecting Data in the Field with Collector

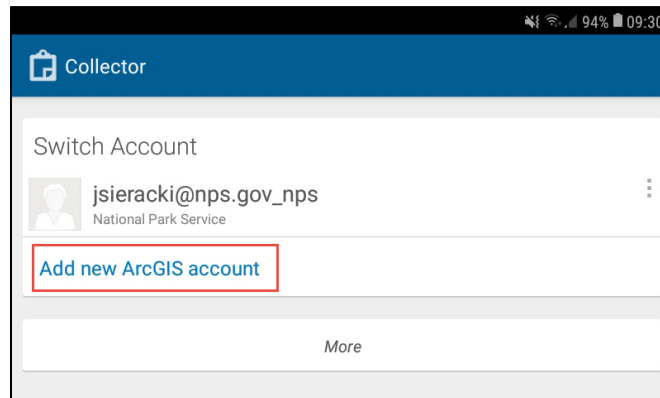
To begin data collection, you will need to first have access to WiFi or cell service. Once the map you created in the above steps is downloaded onto your device, you may go offline. You will need to have WiFi or cell service access once you are ready to sync your data again. The following is demonstrated on an Android tablet. Views and menus may appear different on your own device.

Instructions: Collect NISIMS data using Collector for ArcGIS.

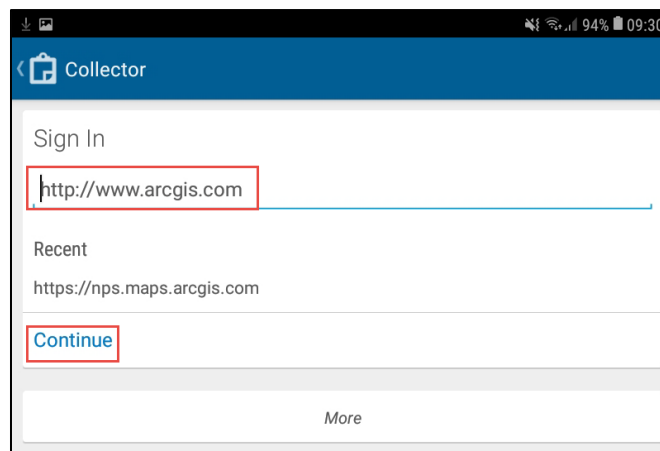
Step 1. **(The following steps must be completed while online).** On your device, start Collector for ArcGIS.



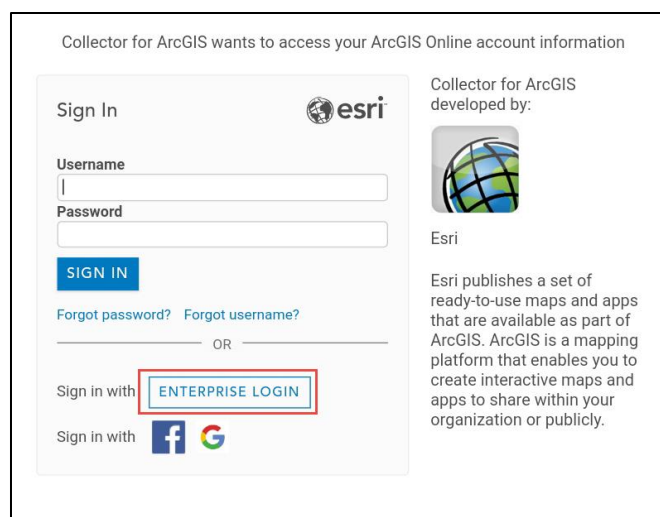
If this is your first time using Collector, you will need to select “Add new ArcGIS account”.



Enter “http://www.arcgis.com” under “Sign In” if it is not already populated. Click “Continue”.



Click “Enterprise Login”.



Enter NPS in the box next to “.maps.arcgis.com” and click continue.

Collector for ArcGIS wants to access your ArcGIS Online account information

Sign In 

Enter your ArcGIS organization's URL below.

.maps.arcgis.com

[< BACK](#) [CONTINUE](#)

Collector for ArcGIS developed by:



Esri

Esri publishes a set of ready-to-use maps and apps that are available as part of ArcGIS. ArcGIS is a mapping platform that enables you to create interactive maps and apps to share within your organization or publicly.

Finally, click “National Park Service”. A window will open asking you to enter your user name and password. Enter your Active Directory login info (<<user name>>@nps.gov and password).

Collector for ArcGIS wants to access your ArcGIS Online account information

Sign in to National Park Service 

Using

[NATIONAL PARK SERVICE](#)

OR

[ARCGIS](#)

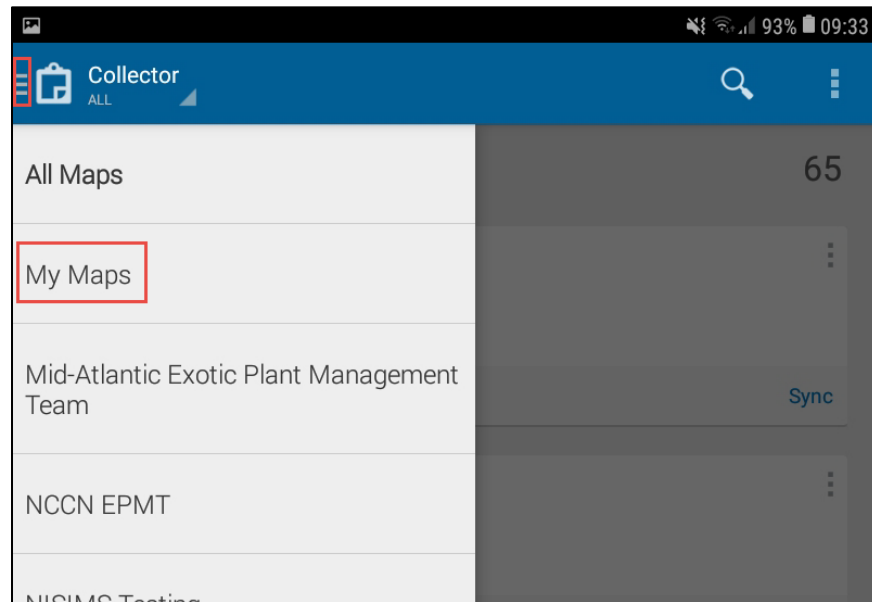
Collector for ArcGIS developed by:



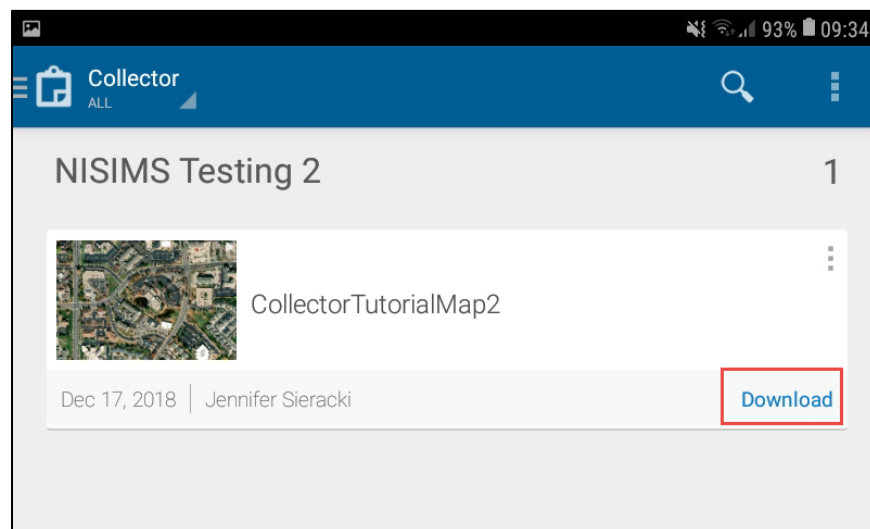
Esri

Esri publishes a set of ready-to-use maps and apps that are available as part of ArcGIS. ArcGIS is a mapping platform that enables you to create interactive maps and apps to share within your organization or publicly.

Step 2. If you do not see your map upon starting Collector, open the menu in the upper left screen (looks like three lines that have been cut off). Select either “All Maps” or the group that contains the maps you created in the steps above.



Step 3. In the list that appears, find the map that you created in the previous steps, and click “Download”.

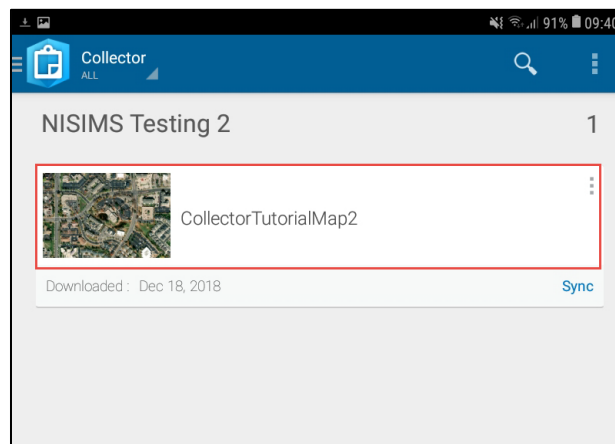


If you have previously used Collector on your device, the next window will ask you to choose a basemap. Using previous basemaps will save you time during the download, but may not match the extent of your new map.

A screen showing your work area will open. You may adjust your work area within the blue box by drawing your fingers closer together on the screen or spreading them further apart. You may also move the work area around the screen by dragging a finger across the screen. Once satisfied with your work area, select “Download” at the bottom of the screen.

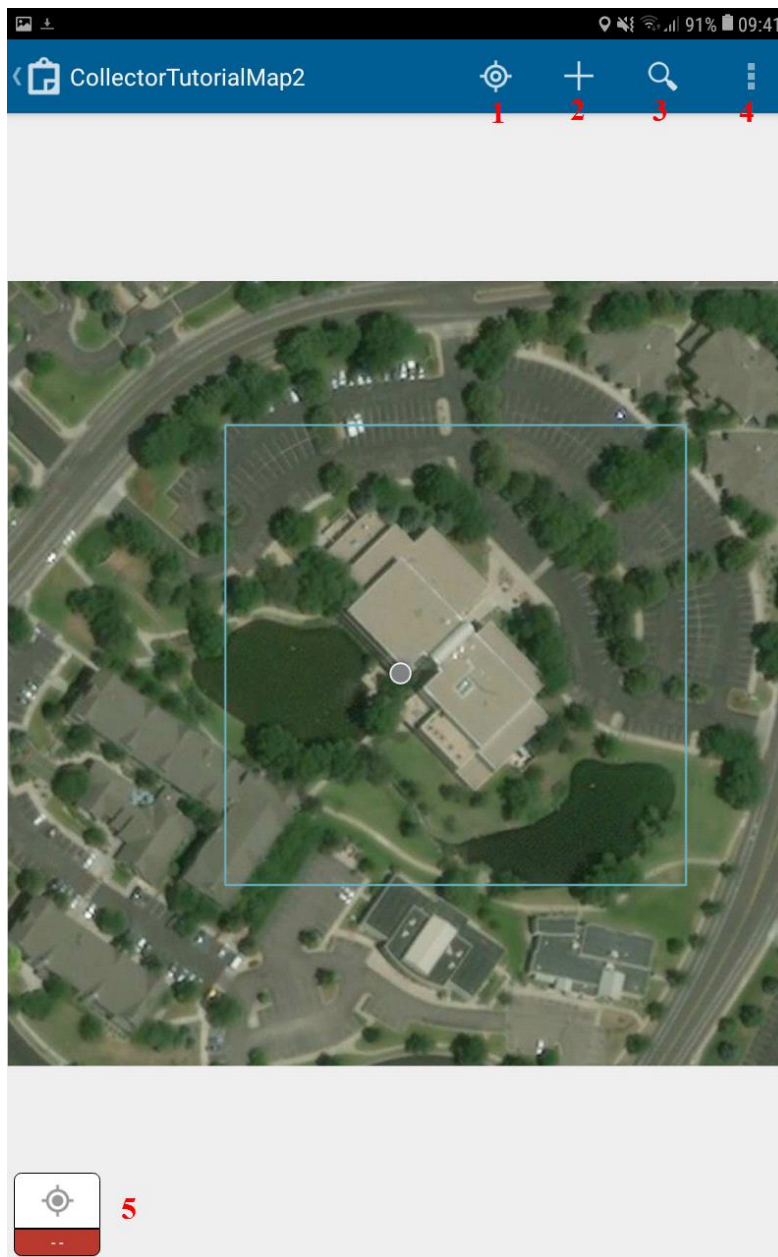


Depending on the size of the map and connection speed, it may take a few moments for the map to download onto your device. Once the download is complete, click on the map in the list to begin collecting data.

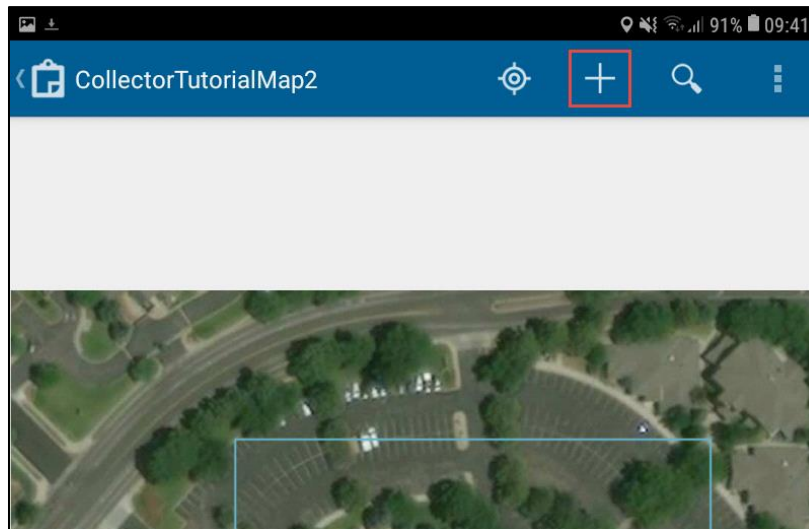


Step 4. The map view window will open. You will collect data from here. **You may go offline while collecting data.** The following features have been numbered in the photo:

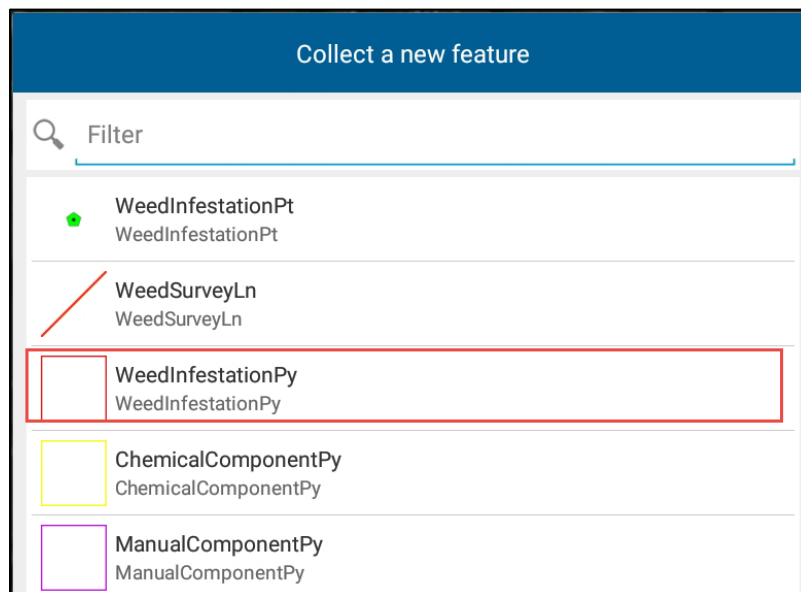
1. My Location—If the circle is filled in, it means the map is panning to keep your location centered. Tap this button to center on your location.
2. Collect New—Lets you collect new data for any of the layers added to the map.
3. Search—Search for a location or an address.
4. More—Provides options to change basemaps (if downloaded) and turn layers on and off.
5. Receiver information.



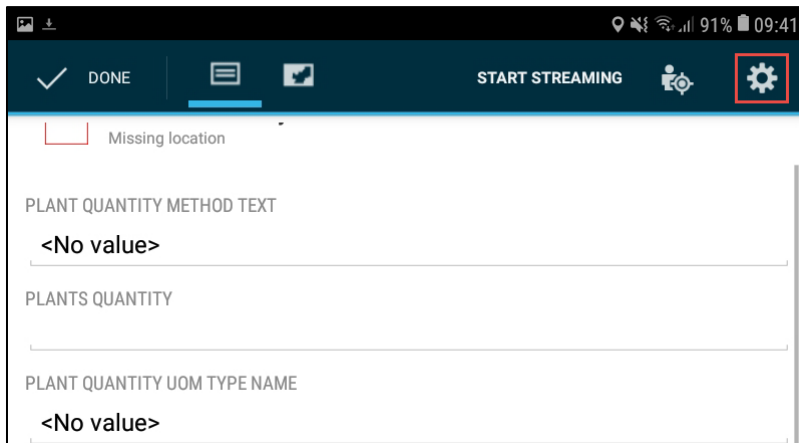
To begin collecting data, click the “Collect New” button at the top of the screen.



In the window that opens, select the layer for which you are collecting data. For this exercise, we added data to the WeedInfestationPy layer.

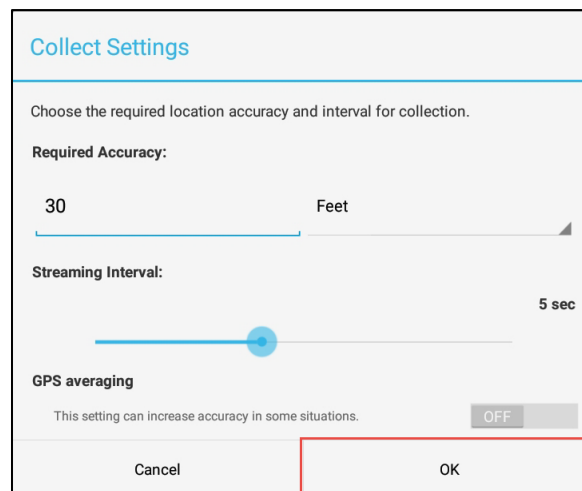


In the upper right hand corner of the screen that opens, click the “Settings” button.



The screenshot shows a mobile application interface. At the top, there is a dark blue header bar with a checkmark icon, the word "DONE", a menu icon, a Twitter icon, the text "START STREAMING", a person icon, and a gear icon (Settings) which is highlighted with a red square. Below the header, the main content area is white. It starts with a red square icon and the text "Missing location". Below that is a section titled "PLANT QUANTITY METHOD TEXT" with a text input field containing "<No value>". This is followed by a section titled "PLANTS QUANTITY" with an empty text input field. Below that is a section titled "PLANT QUANTITY UOM TYPE NAME" with a text input field containing "<No value>".

In the window that opens, set your GPS settings and click OK.



The screenshot shows a dialog box titled "Collect Settings". It has a light gray background. At the top, there is a blue header bar with the text "Collect Settings". Below the header, there is a section titled "Choose the required location accuracy and interval for collection." followed by "Required Accuracy:". Below this, there is a slider control with the value "30" and the unit "Feet". Below the slider, there is a section titled "Streaming Interval:" followed by a slider control with the value "5 sec". Below the slider, there is a section titled "GPS averaging" with the text "This setting can increase accuracy in some situations." and a toggle switch labeled "OFF". At the bottom of the dialog, there are two buttons: "Cancel" and "OK", with the "OK" button highlighted by a red square.

You may begin collecting spatial data either before or after you have entered the attribute data. When you are ready to collect your point, line, or polygon, click “START STREAMING” at the top of the screen.

The screenshot shows the top of a mobile application interface. At the top, there is a status bar with icons for location, signal, and battery (91%) and the time 09:41. Below this is a dark blue header bar with a checkmark icon, the word 'DONE', a list icon, a map icon, a red-outlined box containing the text 'START STREAMING', a person icon, and a gear icon. The main content area has a white background. At the top of this area is a red-outlined box with the text 'Missing location'. Below this are several text input fields: 'PLANT QUANTITY METHOD TEXT' with the value '<No value>', 'PLANTS QUANTITY' (empty), 'PLANT QUANTITY UOM TYPE NAME' with the value '<No value>', and 'PERCENT COVER' with the value '0'.

Once you are done walking your point, line, or polygon boundary, click “PAUSE STREAMING”. You may also pause streaming at any time during your data collection if you need to stop or are going over especially rough terrain.

The screenshot shows the same mobile application interface as the previous one, but with the 'PAUSE STREAMING' button highlighted with a red box in the header. The status bar shows 90% battery and time 09:44. The main content area now shows a red-outlined box with the text 'WeedInfestationPy: No valid area'. Below this are the same text input fields: 'PLANT QUANTITY METHOD TEXT' with the value '<No value>', 'PLANTS QUANTITY' (empty), 'PLANT QUANTITY UOM TYPE NAME' with the value '<No value>', and 'PERCENT COVER' (empty).

To add attributes to your data, simply click in each field and either select a value from a drop-down list, type a value using the keypad that opens, or select from a calendar. With dates you may also click the “Use Current” option to populate the field. Some required fields will have a yellow warning triangle next to them. Be sure to populate these. Required dates will be populated with a default value. You will not be able to save your feature until all required fields are populated (i.e. a “Popup contains invalid value” error may popup).

The screenshot shows a mobile application interface for data entry. At the top, there is a dark blue header bar with a checkmark icon, the word "DONE", a list icon, a share icon, the text "START STREAMING", and a settings gear icon. Below the header, the form contains several input fields with labels to their left. The fields are: "Missing location" (with a red outline), "PLANT QUANTITY METHOD TEXT" (with "<No value>"), "PLANTS QUANTITY" (empty), "PLANT QUANTITY UOM TYPE NAME" (with "<No value>"), "PERCENT COVER" (with "0"), "SPECIFIC WEED INFESTED AREA TEXT" (empty), "DATA CURRENCY BEGIN DATE" (with "12/29/1899 5:00 PM" and a clock icon followed by "Use current"), "PLANT PHENOLOGY NAME" (with "<No value>"), "PHYSICAL ACCESS LIMITATION TEXT" (empty), "PHYSICAL ACCESS MODE NAME" (with "<No value>"), "SCIENTIFIC NAME CODE" (empty, with a yellow warning triangle icon to its right), "RECORDER NAME" (empty), and "ROLE NAME" (with "<No value>"). The status bar at the very top shows location, signal, 91% battery, and the time 09:41.

✓ DONE START STREAMING

Missing location

PLANT QUANTITY METHOD TEXT
<No value>

PLANTS QUANTITY

PLANT QUANTITY UOM TYPE NAME
<No value>

PERCENT COVER
0

SPECIFIC WEED INFESTED AREA TEXT

DATA CURRENCY BEGIN DATE
12/29/1899 5:00 PM Use current

PLANT PHENOLOGY NAME
<No value>

PHYSICAL ACCESS LIMITATION TEXT

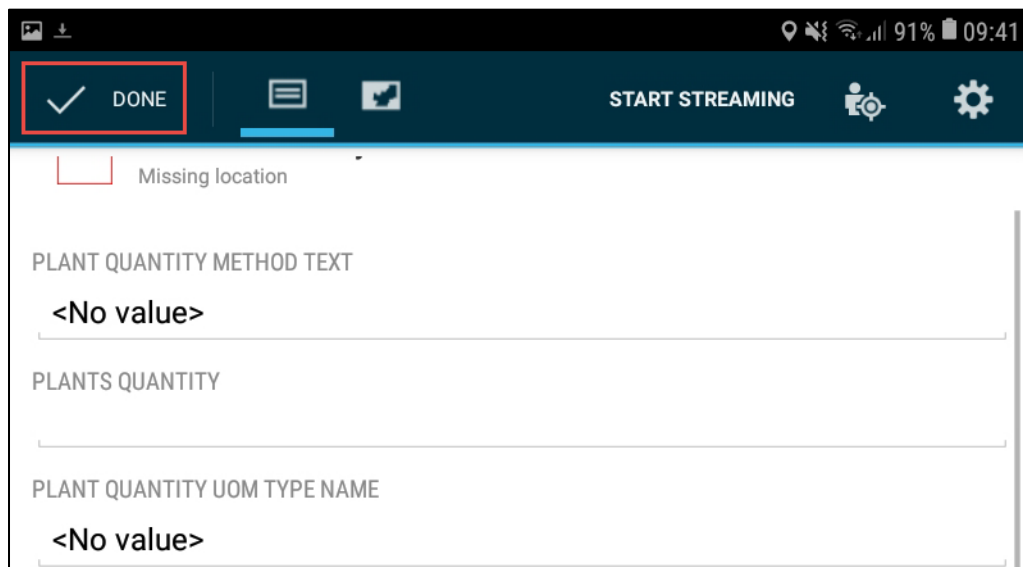
PHYSICAL ACCESS MODE NAME
<No value>

SCIENTIFIC NAME CODE

RECORDER NAME

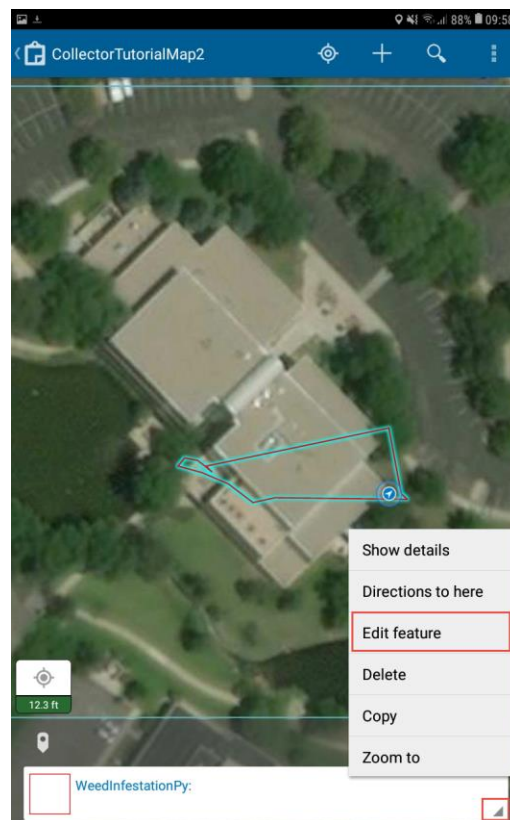
ROLE NAME
<No value>

Once your feature is complete (i.e. both spatial and attribute data collected), click “Done” in the upper left hand corner of the screen.

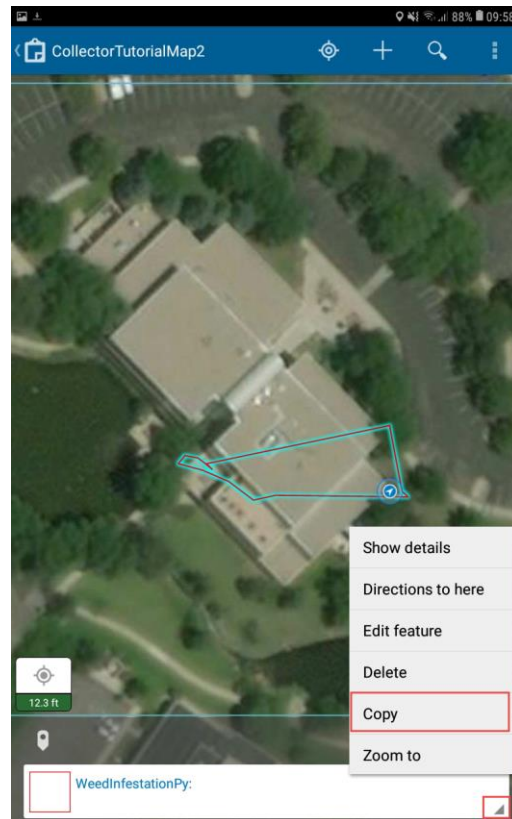


A screenshot of the data entry form in the Collector app. The top bar is dark blue with a white checkmark icon and the word "DONE" in a red-bordered box. To the right of "DONE" are icons for a list, a map, and a "START STREAMING" button. Below the top bar, there is a red-outlined box labeled "Missing location". The form contains three text input fields: "PLANT QUANTITY METHOD TEXT" with the value "<No value>", "PLANTS QUANTITY", and "PLANT QUANTITY UOM TYPE NAME" with the value "<No value>".

To edit data that has already been entered, tap the feature you wish to edit with your finger so that it turns cyan. Click the arrow in the lower right hand corner of the screen, and select edit. The attribute window from above will re-open. Click “Done” when edits are complete.



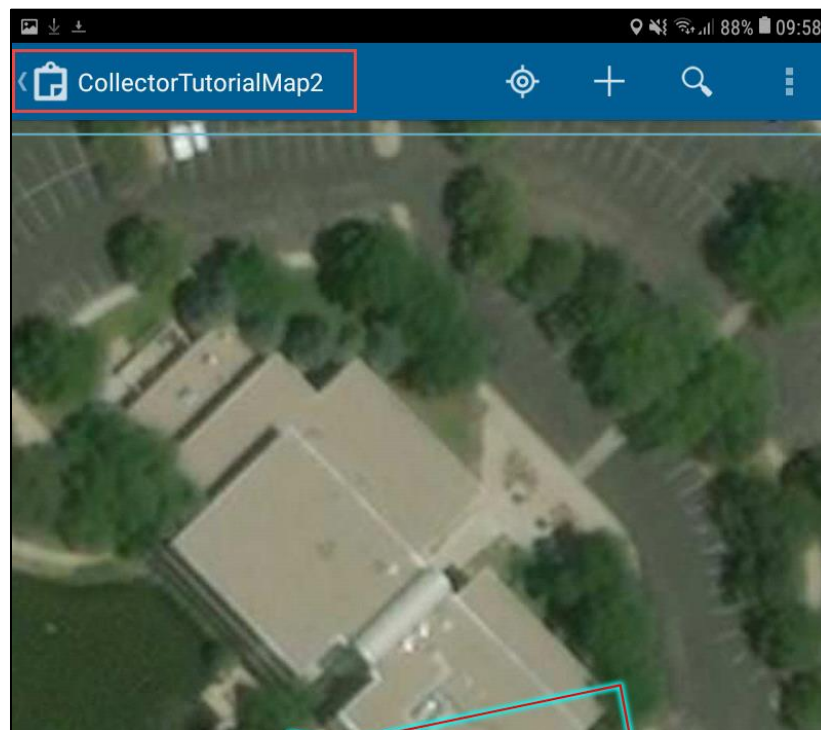
To copy features or attributes, select “Copy” from the same menu above.



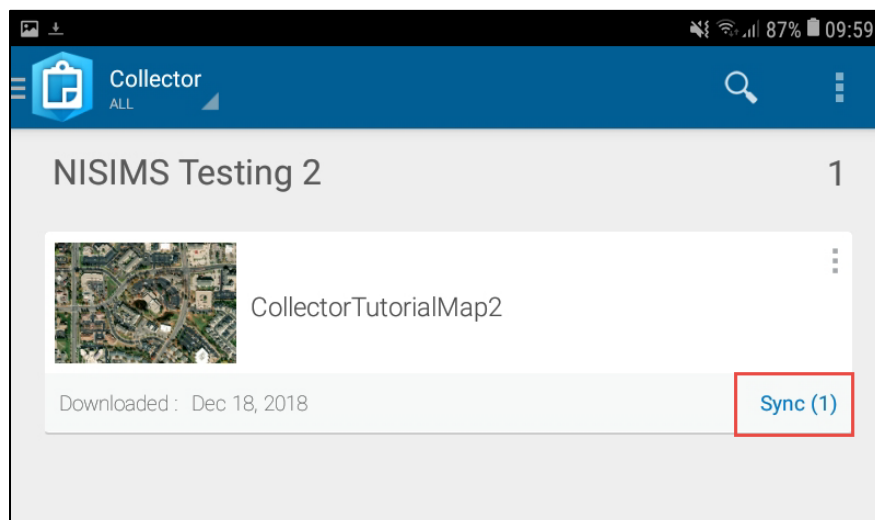
A window will open with the options to copy the feature and the attribute. You may copy the attributes and shape of the feature to create a complete copy of the feature. You may also copy only the attributes, which will allow you to create a new feature in a new location within the current layer (e.g. good to use when species, herbicide, etc. are the same for the new feature). Or you may copy the shape of the feature, and add to any of the other layers included in the map (e.g. useful when you want to collect both infestation and survey data using the same feature).

Collect another feature	
☐	Like this one Copy attributes and shape
☐	Like this one, new shape Copy attributes only
☐	With the same shape Different feature, copy shape

Step 5. Once you are done collecting data, click the map name in the upper left hand corner of the screen.



Step 6. When you are again connected to WiFi or cell service, you may sync your data so all changes upload to ArcGIS online. The number of changes made will appear in parentheses next the “Sync” option.



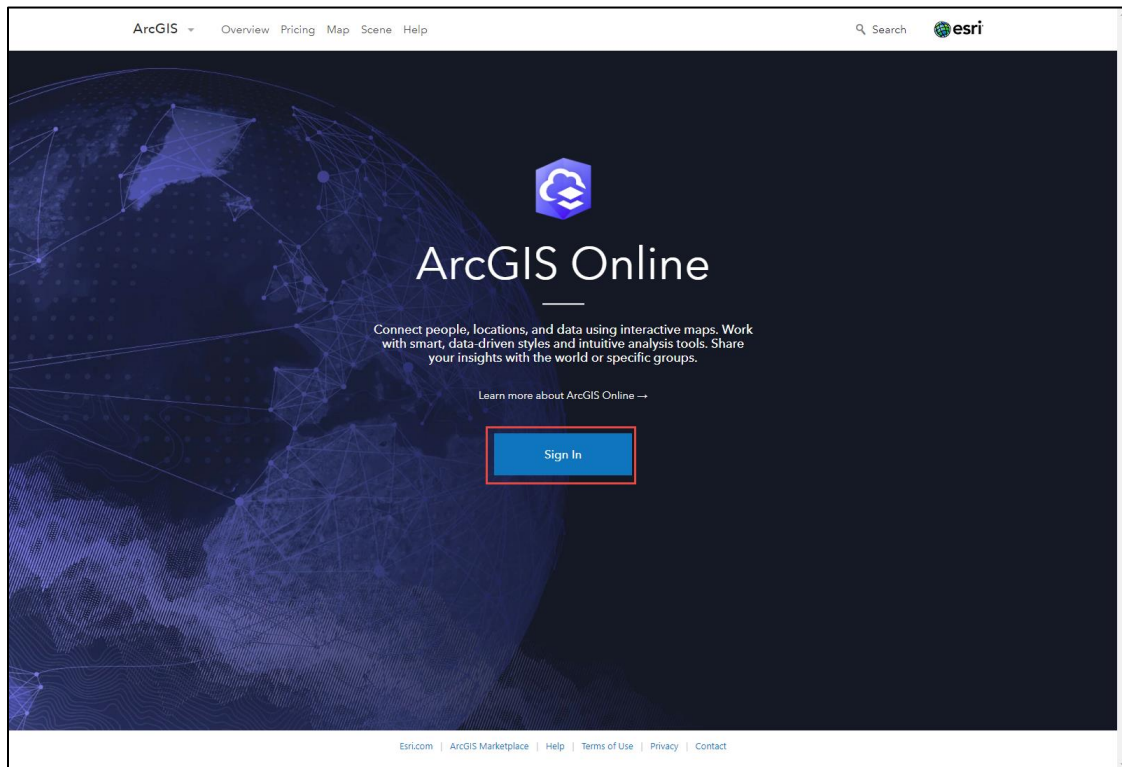
Once complete, your data will be available for export.

4.5 Exporting NISIMS Layers from ArcGIS Online

Now that you have collected your data in the field, you will need to export it into a file geodatabase before uploading it to the NISIMS website. You will need to quality check your data prior to uploading it to NISIMS; however, it may remain in the export format.

Instructions: Export your NISIMS data to a file geodatabase from ArcGIS Online.

Step 1. Go to www.arcgis.com, and click “Sign In”.



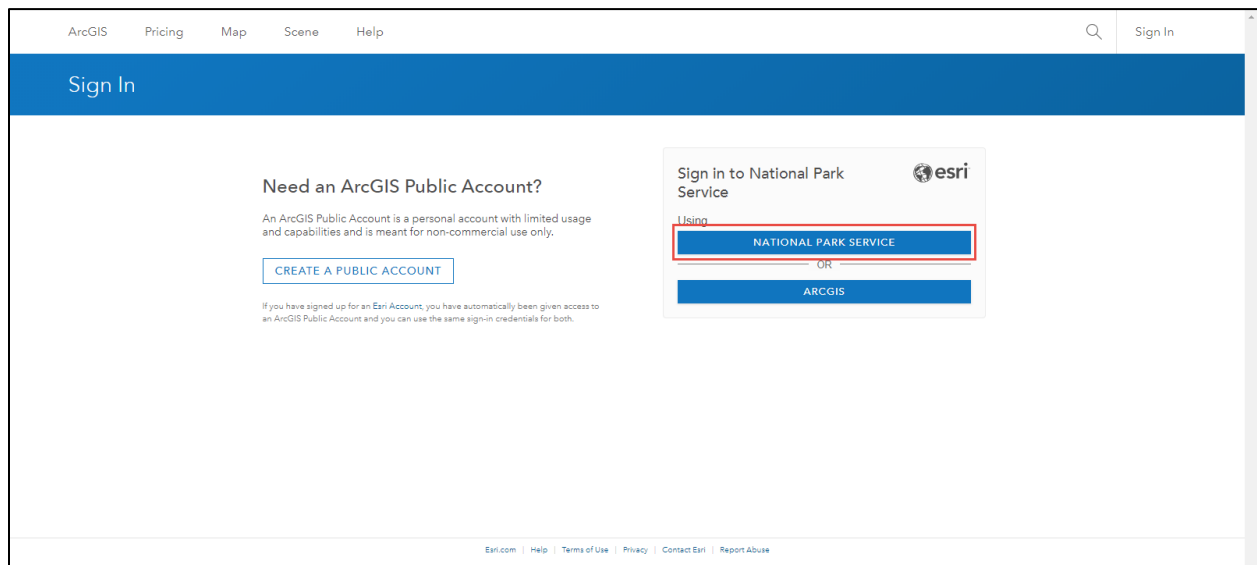
On the right-hand side of the screen that opens, click the “Enterprise Login” button.

The screenshot shows the ArcGIS Sign In page. The top navigation bar includes links for ArcGIS, Pricing, Map, Scene, and Help, along with a search icon and a Sign In link. The main heading is "Sign In". On the left, there is a section titled "Need an ArcGIS Public Account?" with a description and a "CREATE A PUBLIC ACCOUNT" button. On the right, the "Sign In" form is displayed. It includes fields for Username and Password, a "Keep me signed in" checkbox, and a "SIGN IN" button. Below these, there are links for "Forgot password?" and "Forgot username?". A red box highlights the "ENTERPRISE LOGIN" button, which is located next to the "Sign in with" text. Below this, there are social media login options for Facebook and Google.

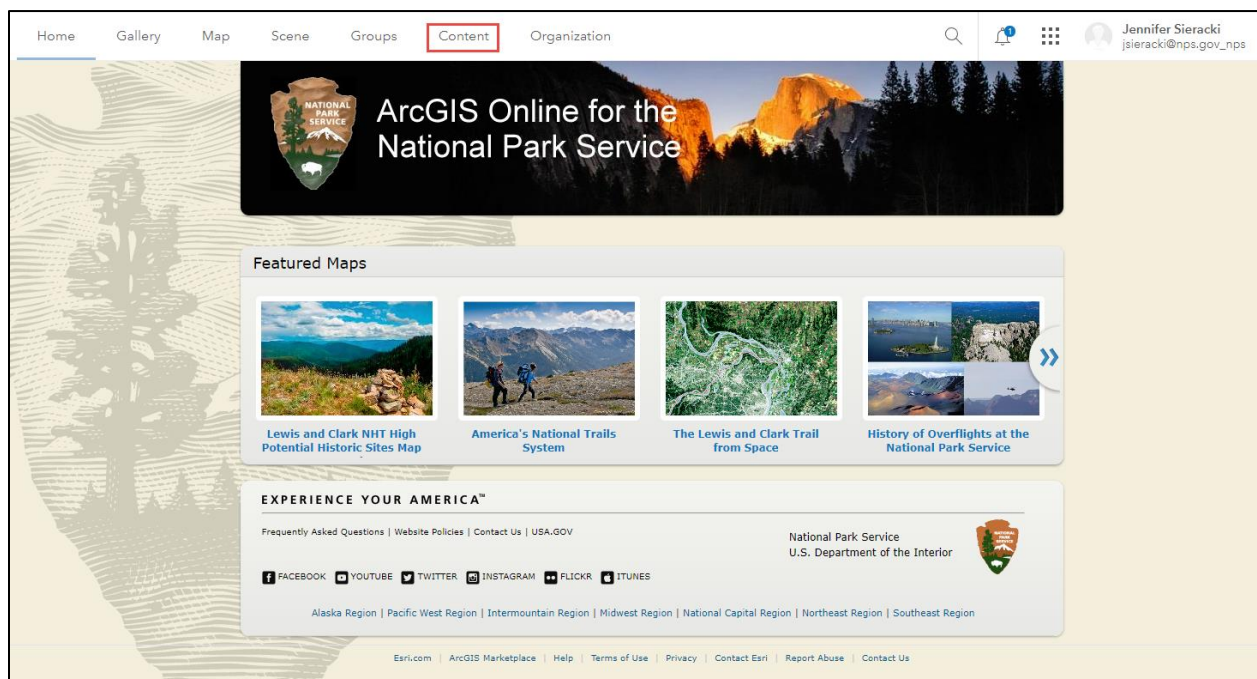
Enter “nps” in the box under “Enter your ArcGIS organization’s URL below.”, and click “Continue”.

The screenshot shows the ArcGIS Sign In page, specifically the "Enter your ArcGIS organization's URL below." step. The top navigation bar is the same as the previous screenshot. The main heading is "Sign In". On the left, the "Need an ArcGIS Public Account?" section is visible. On the right, the "Sign In" form is displayed. It includes a text input field for the organization's URL, which is filled with "nps". A red box highlights this input field. Below the input field, there are "< BACK" and "CONTINUE" buttons. The "CONTINUE" button is highlighted with a red box. The URL field is followed by ".maps.arcgis.com".

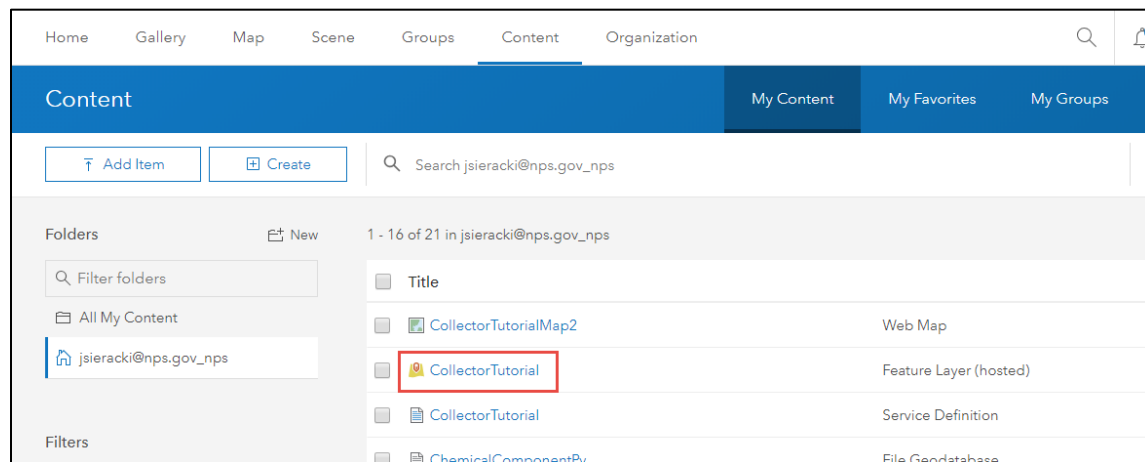
Click “National Park Service” on the next page.



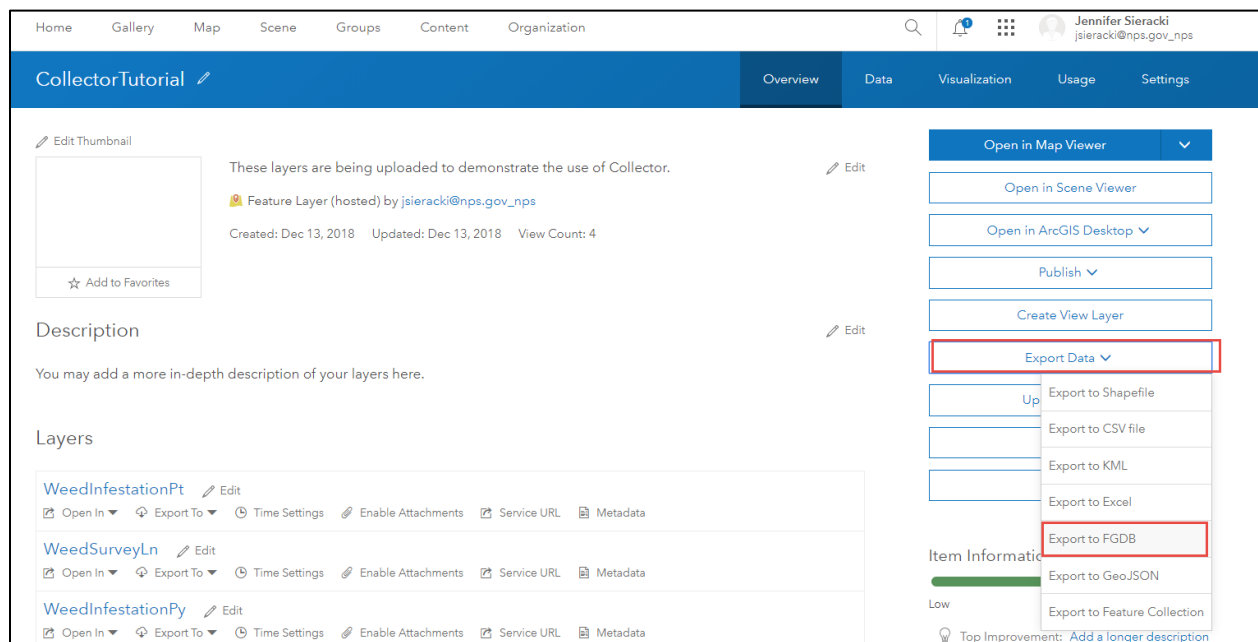
Step 2. Once logged in, select “Content” from the top of the webpage.



Step 3. From the list of your content, select the “Feature Layer” you edited in the previous instructions using Collector. Note: Do not select the “Web Map”.



Step 4. Click “Export Data” on the right hand of the screen, and select “Export to FGDB”.



In the window that opens, include a title, tag, and summary of the data being exported. Click “EXPORT” when complete. This may take several minutes depending on data size and connection speed.

Export to File Geodatabase ×

Title:

CollectorTutorialExport

Tags:

NISIMS ×

Add tags

Categories:

+ Assign Category

Summary:

This FGDB contains data from the Collector Tu

Save in folder:

jsieracki@nps.gov_nps ▼

Export

Cancel

Step 5. Once the export is complete, its web page will automatically open. Click “Download” on the right side of the screen.

Home Gallery Map Scene Groups Content Organization

CollectorTutorialExport ✎

Overview Usage Settings

✎ Edit Thumbnail



☆ Add to Favorites

This FGDB contains data from the Collector Tutorial ✎ Edit

File Geodatabase by jsieracki@nps.gov_nps

Created: Dec 18, 2018 Updated: Dec 18, 2018 Number of Downloads: 0

Description ✎ Edit

Download

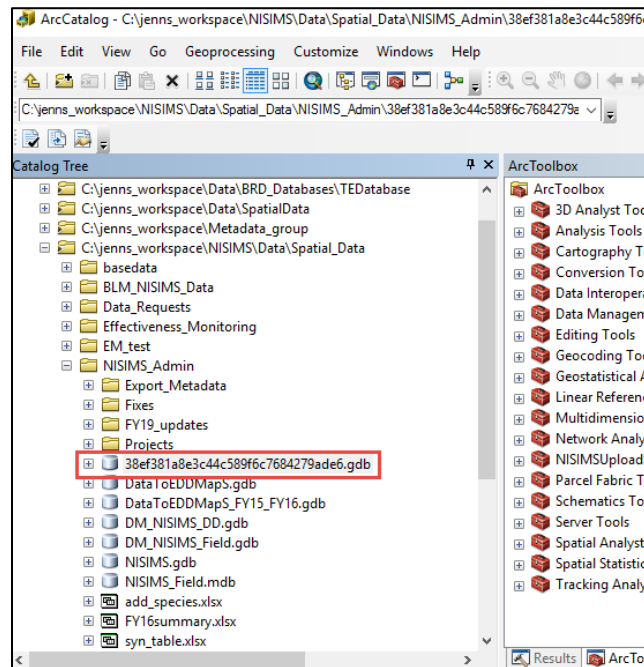
Publish

Update

Share

Metadata

The data will download as is normal for your browser. The file geodatabase will be in a ZIP file that will need to be unzipped in order to quality check your data. Once unzipped, you may change the file name to something more descriptive. The data may be uploaded after quality checking is complete.



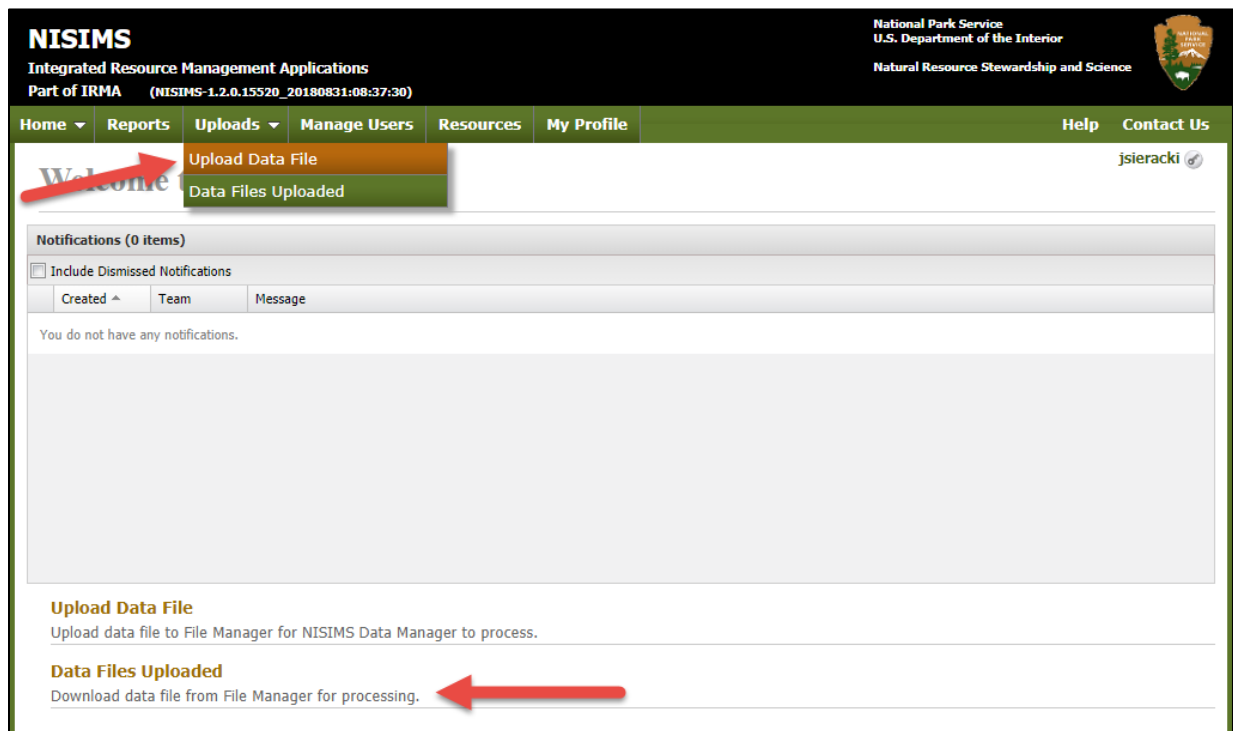
5. NISIMS Web Interface

5.1 Uploading Data

The NISIMS web interface has been designed to allow EPMT and park staff to upload data to the NISIMS SDE geodatabase and to create reports from uploaded data for each of the parks they manage for exotic plants. In order to meet reporting deadlines, data should be uploaded at least once a month during the field season. All exotic plant data that is uploaded to the NISIMS web interface is required to be in one of the data structures described in this user guide. All files should be zipped prior to uploading. Instructions for uploading data to the NISIMS web interface follow:

Instructions: Upload a data file to the NISIMS web interface.

Step 1. Select “Upload Data File” from your home page or from the “Uploads” menu.



Step 2. Select the team for which you are uploading data from the drop down menu.

NISIMS
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National Park Service
U.S. Department of the Interior
Natural Resource Stewardship and Science

Home ▾ Reports Uploads ▾ Manage Users Resources My Profile Help Contact Us

jsieracki

Upload Data File

* Choose Team

* Description

Instructions

UTC ☐ Dates in UTC
☐ Chemical Treatment Times in UTC

Browse... Abort Remove

Filename	Size	Type	Status	%
----------	------	------	--------	---

* indicates required

Upload

NISIMS
Integrated Resource Management Applications
Part of IRMA (NISIMS-1.2.0.15520_20180831:08:37:30)

National Park Service
U.S. Department of the Interior
Natural Resource Stewardship and Science

Home ▾ Reports Uploads ▾ Manage Users Resources My Profile Help Contact Us

jsieracki

Upload Data File

* Choose Team

* Description Bryce Canyon National Park (BRCA)
Brices Cross Roads National Battlefield Site (BRCR)
Brown v. Board of Education National Historic Site (BRVB)
Buffalo National River (BUFF)
Buck Island Reef National Monument (BUIS)
Cabrillo National Monument (CABR)
Canyon De Chelly National Monument (CACH)
Castle Clinton National Monument (CACL)
Cape Cod National Seashore (CACO)
California Exotic Plant Management Team (CAEPMT)
Casa Grande Ruins National Monument (CAGR)
Cape Hatteras National Seashore (CAHA)
Capitol Hill Parks (CAHE)
Captain John Smith Chesapeake National Historic Trail (CA10)

Instructions

UTC

Browse... Abort Remove

Filename	Size	Type	Status	%
----------	------	------	--------	---

* indicates required

Upload

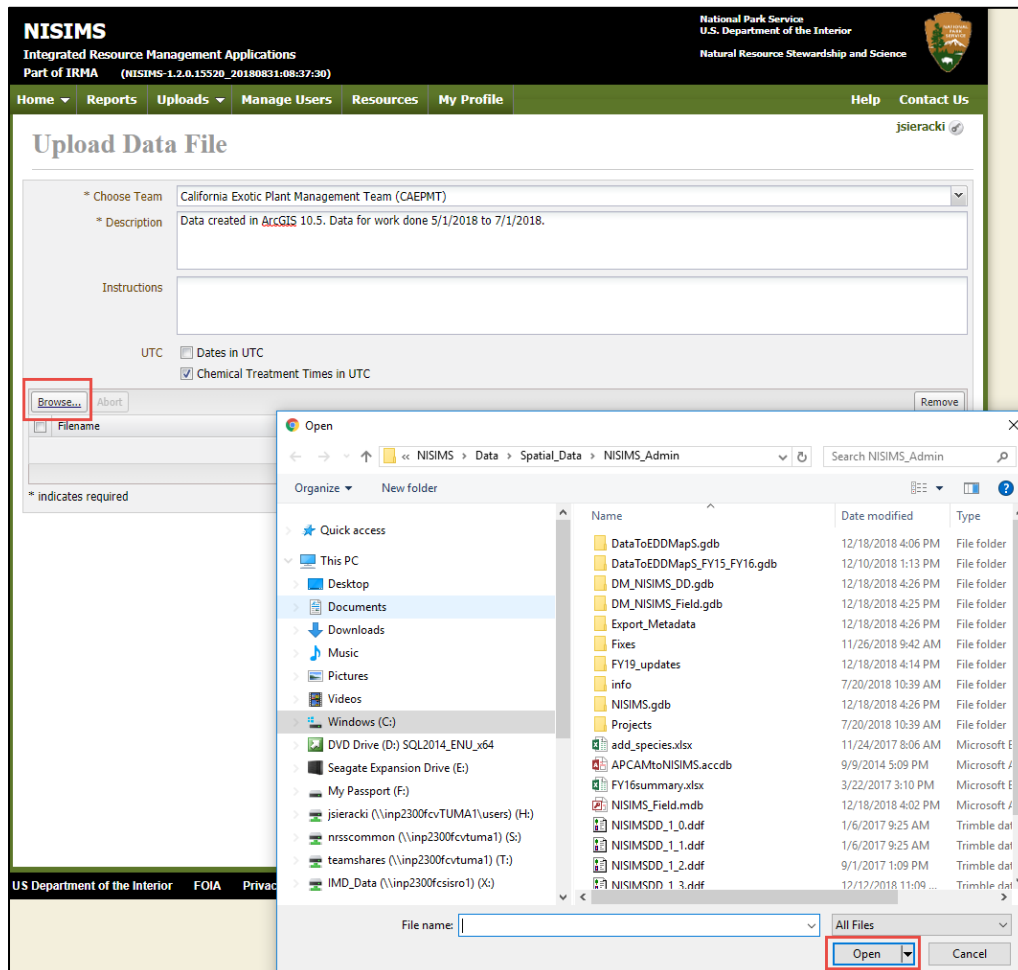
Step 3. Write a description of the data being uploaded. Include the version of software used to create the data and any changes that have been made to the file format (e.g. added SCNTFC_CD11-13 to the ChemicalComponentPy feature class).

The screenshot shows the 'Upload Data File' form in the NISIMS application. The form includes a header with the NISIMS logo and navigation tabs. The main content area has a 'Choose Team' dropdown set to 'California Exotic Plant Management Team (CAEPMT)'. The 'Description' field contains the text 'Data created in ArcGIS 10.5. Data for work done 5/1/2018 to 7/1/2018.' A red arrow points to this field. Below the description is an 'Instructions' text area. There are two checkboxes under the 'UTC' label: 'Dates in UTC' (unchecked) and 'Chemical Treatment Times in UTC' (unchecked). At the bottom, there is a 'Browse...' button, an 'Abort' button, and a 'Remove' button. A table with columns 'Filename', 'Size', 'Type', 'Status', and '%' is visible. The 'Upload' button is at the bottom right.

Step 4. If the dates or times recorded in the database are in Coordinated Universal Time (UTC), check the “Dates in UTC” and/or “Chemical Treatment Times in UTC” box(es). If you collected your data using Collector, and did not edit your times after downloading the data from ArcGIS Online, your Chemical Treatment Times are in UTC and any dates that include a time are also in UTC. Dates that do not include a time are not in UTC.

This screenshot shows the same 'Upload Data File' form as the previous one, but with the 'Chemical Treatment Times in UTC' checkbox checked. A red box highlights the 'UTC' section, which includes the 'Dates in UTC' and 'Chemical Treatment Times in UTC' checkboxes. The 'Description' field and other form elements remain the same.

Step 5. Click “Browse...” and browse to the file to be uploaded. Only upload data in a compressed file format (e.g. ZIP, RAR, 7z, etc.). Only one file may be uploaded at a time. Click “Open” to upload the selected file.



The selected file will be added to the upload box. Click the “Upload” button to complete the upload.

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National Park Service
U.S. Department of the Interior
Natural Resource Stewardship and Science

Home Reports Uploads Manage Users Resources My Profile Help Contact Us

jsieracki

Upload Data File

* Choose Team: California Exotic Plant Management Team (CAEPMT)

* Description: Data created in ArcGIS 10.5. Data for work done 5/1/2018 to 7/1/2018.

Instructions

UTC ☐ Dates in UTC ☒ Chemical Treatment Times in UTC

Browse... Abort Remove

Filename	Size	Type	Status	%
DM_NISIMS_Field.zip	269.1 KB	application/x-zip-compres...	ready	0%

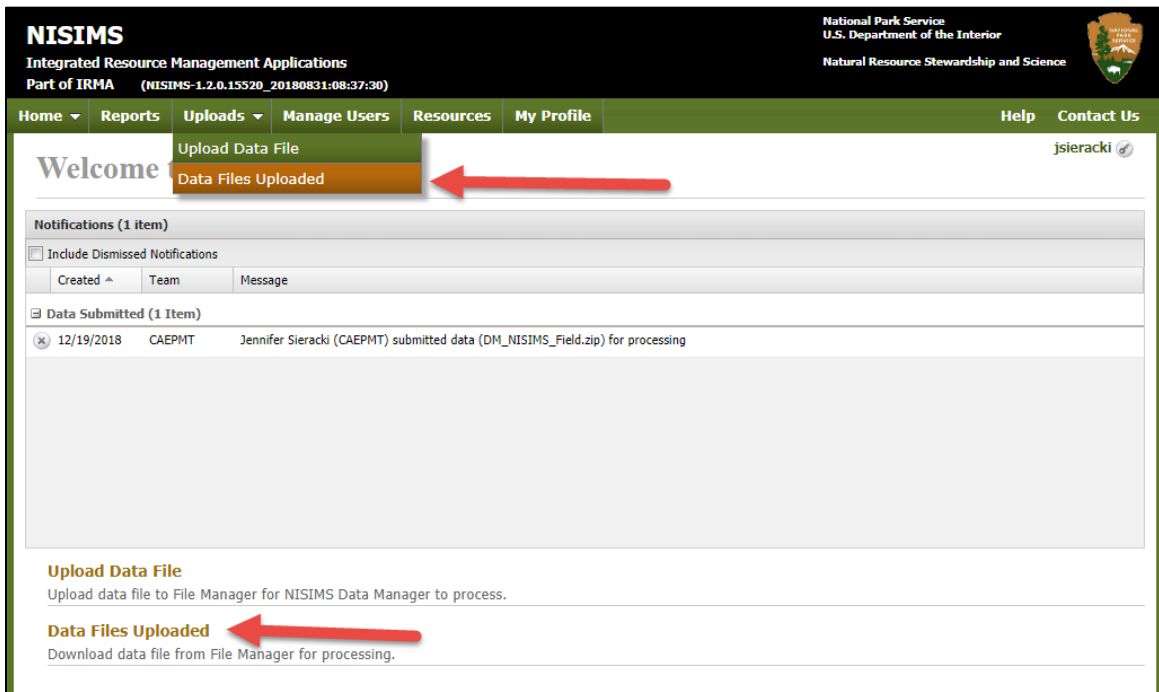
Selected 1 file(s), 269.1 KB

* indicates required

Upload

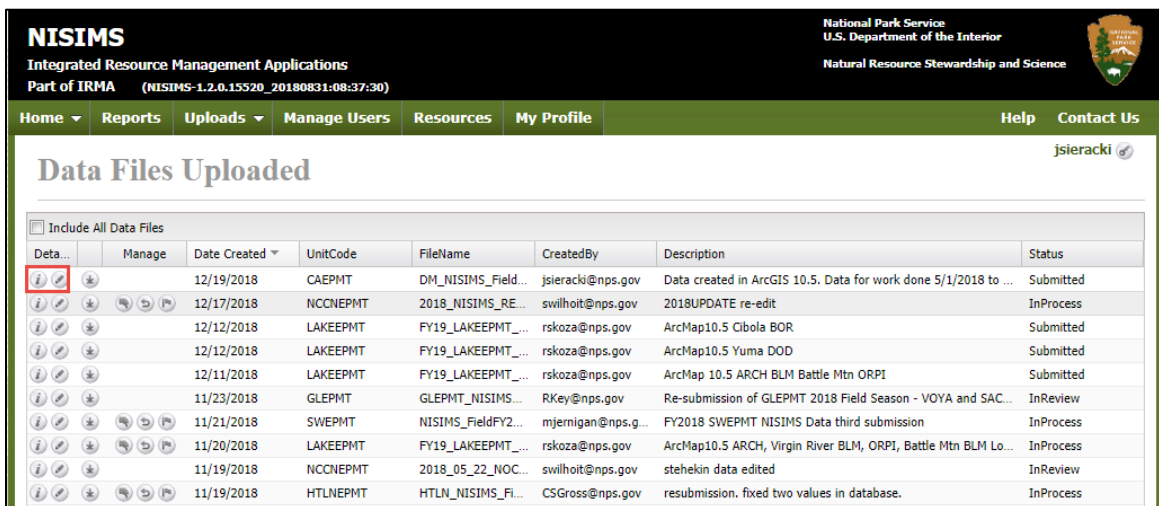
Once completed, you will be brought to the Home page. There should be a message under Notifications informing you that data has been submitted for processing. You will also receive a message via email letting you know that the file has been uploaded and notifications to let you know once the WASO data manager has downloaded your data and either successfully converted it to the NISIMS SDE format or rejected it. If the file has been rejected, detailed information as to what needs to be fixed prior to uploading to the NISIMS SDE will be included.

Step 6. You may view information for the files you or others have uploaded for your team(s) or edit them by going to the “Data Files Uploaded” page.



The screenshot shows the NISIMS (National Integrated Stewardship Information Management System) interface. The top navigation bar includes 'Home', 'Reports', 'Uploads', 'Manage Users', 'Resources', 'My Profile', 'Help', and 'Contact Us'. The 'Uploads' dropdown menu is open, showing 'Upload Data File' and 'Data Files Uploaded', with the latter highlighted by a red arrow. Below the menu, the 'Welcome' section displays the user's name 'jsieracki'. A 'Notifications (1 item)' section shows a message from Jennifer Sieracki (CAEPMT) submitted data (DM_NISIMS_Field.zip) for processing on 12/19/2018. At the bottom, the 'Upload Data File' and 'Data Files Uploaded' links are shown, with the latter also highlighted by a red arrow.

From the “Data Files Uploaded” page, you may use the “View” and “Edit” buttons to review and make changes to the file information included with the data file upload. Files may not be edited once the WASO Data Manager has begun processing them.



The screenshot shows the 'Data Files Uploaded' page in NISIMS. The page header includes the NISIMS logo and the user's name 'jsieracki'. Below the header, there is a table of uploaded files. The table has columns for 'Data...', 'Manage', 'Date Created', 'UnitCode', 'FileName', 'CreatedBy', 'Description', and 'Status'. The first row is highlighted, and the 'View' and 'Edit' icons are visible in the 'Data...' column. The table lists several files, including 'DM_NISIMS_Field...', '2018_NISIMS_RE...', 'FY19_LAKEEPMT...', 'ARCMap10.5 Yuma DOD', 'ARCMap 10.5 ARCH BLM Battle Mtn ORPI', 'Re-submission of GLEPMT 2018 Field Season - VOYA and SAC...', 'FY2018 SWEPMT NISIMS Data third submission', 'ARCMap10.5 ARCH, Virgin River BLM, ORPI, Battle Mtn BLM Lo...', 'stehekin data edited', and 'HTLN_NISIMS_Fi...'. The status of each file is indicated in the 'Status' column.

Data...	Manage	Date Created	UnitCode	FileName	CreatedBy	Description	Status
 		12/19/2018	CAEPMT	DM_NISIMS_Field...	jsieracki@nps.gov	Data created in ArcGIS 10.5. Data for work done 5/1/2018 to ...	Submitted
 		12/17/2018	NCCNEPMT	2018_NISIMS_RE...	swilhoit@nps.gov	2018UPDATE re-edit	InProcess
 		12/12/2018	LAKEEPMT	FY19_LAKEEPMT_...	rskoza@nps.gov	ArcMap10.5 Cibola BOR	Submitted
 		12/12/2018	LAKEEPMT	FY19_LAKEEPMT_...	rskoza@nps.gov	ArcMap10.5 Yuma DOD	Submitted
 		12/11/2018	LAKEEPMT	FY19_LAKEEPMT_...	rskoza@nps.gov	ArcMap 10.5 ARCH BLM Battle Mtn ORPI	Submitted
 		11/23/2018	GLEPMT	GLEPMT_NISIMS...	RKey@nps.gov	Re-submission of GLEPMT 2018 Field Season - VOYA and SAC...	InReview
 		11/21/2018	SWEPMT	NISIMS_FieldFY2...	mjernigan@nps.g...	FY2018 SWEPMT NISIMS Data third submission	InProcess
 		11/20/2018	LAKEEPMT	FY19_LAKEEPMT_...	rskoza@nps.gov	ArcMap10.5 ARCH, Virgin River BLM, ORPI, Battle Mtn BLM Lo...	InProcess
 		11/19/2018	NCCNEPMT	2018_05_22_NOC...	swilhoit@nps.gov	stehekin data edited	InReview
 		11/19/2018	HTLNEMPT	HTLN_NISIMS_Fi...	CSGross@nps.gov	resubmission. fixed two values in database.	InProcess

You may also delete files from the “Edit Submitted File” form if it is still in “Submitted” status. Files that are “InProgress” or “Processed” may not be deleted, and all changes must be made by contacting the WASO data manager. Other status options will only be available to the WASO data manager. Once edits have been completed, click “Save”.

Edit Submitted File

UnitCode California Exotic Plant Management Team (CAEPMT)

FileName DM_NISIMS_Field.zip

CreatedBy jsieracki@nps.gov

Date Created 12/19/2018 10:51:42 AM

* Description Data created in ArcGIS 10.5. Data for work done 5/1/2018 to 7/1/2018.

Instructions

UTC ☐ Dates in UTC ☒ Chemical Treatment Times in UTC

* Status Submitted

Reject Reason Submitted

Review File InProcess

Review Details InReview

Accepted

Processed

Deleted

Rejected

Review Rejected

* Indicates required

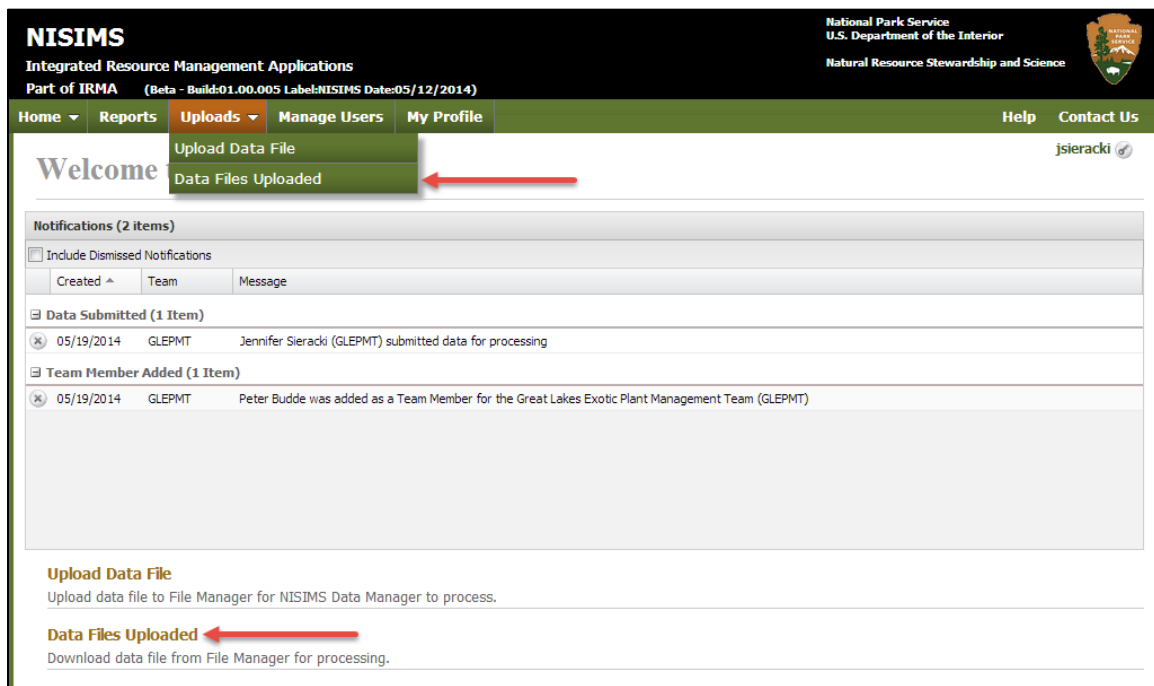
Cancel Save

5.2 Quality Checking Data

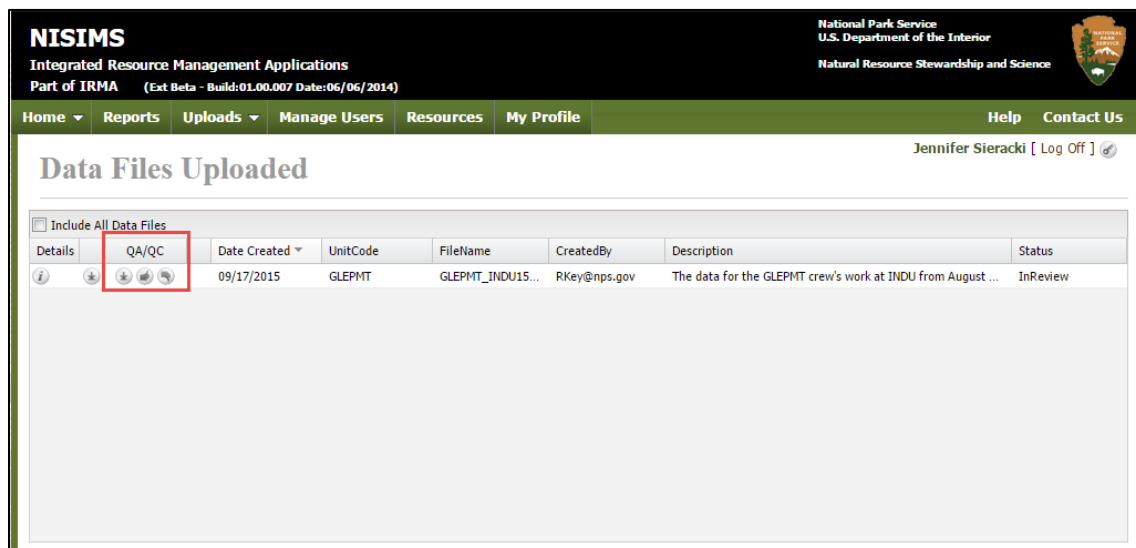
Once the NISIMS data manager has completed converting your data to the NISIMS format, they will create an export file for you, and you will need to check the data for any errors. You will receive notification from NISIMS letting you know that your data is ready to be quality checked.

Instructions: Quality check your data and inform the data manager as to the status of that data.

Step 1. Select “Data Files Uploaded” from your NISIMS home page (<https://irma.nps.gov/NISIMS>), or select it from the “Uploads” drop-down list at the top of your home page.

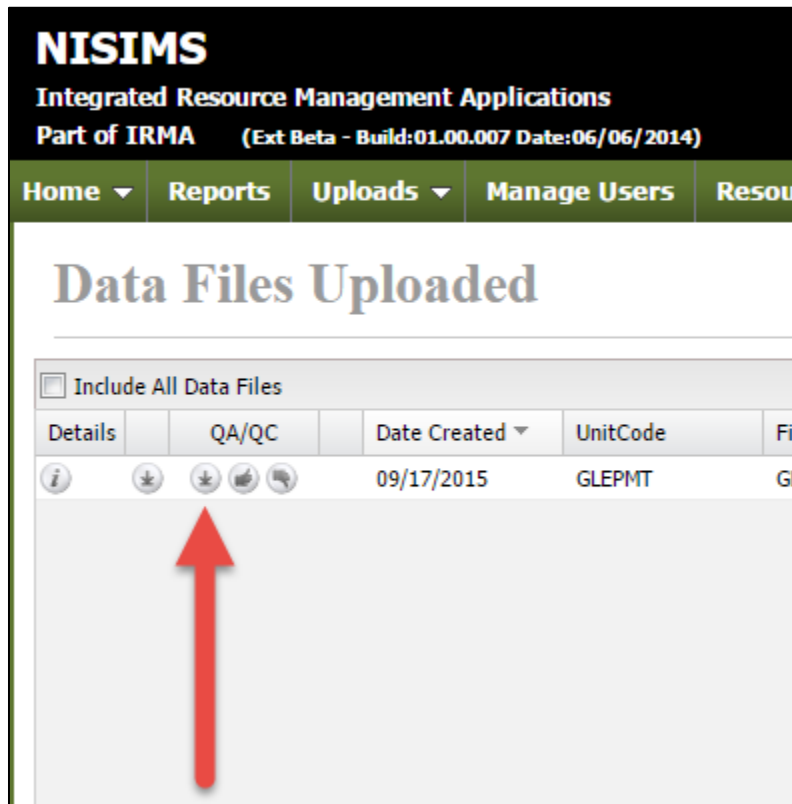


Once a file is ready for quality checking, 3 buttons will appear under QA/QC in your list of “Data Files Uploaded”.



From left to right, these buttons are “Download QA/QC”, “Accept”, and “Reject”.

Step 2. Click “Download QA/QC” button to download a copy of the NISIMS Export file. This will be the data that you check to ensure that everything was entered and converted correctly.

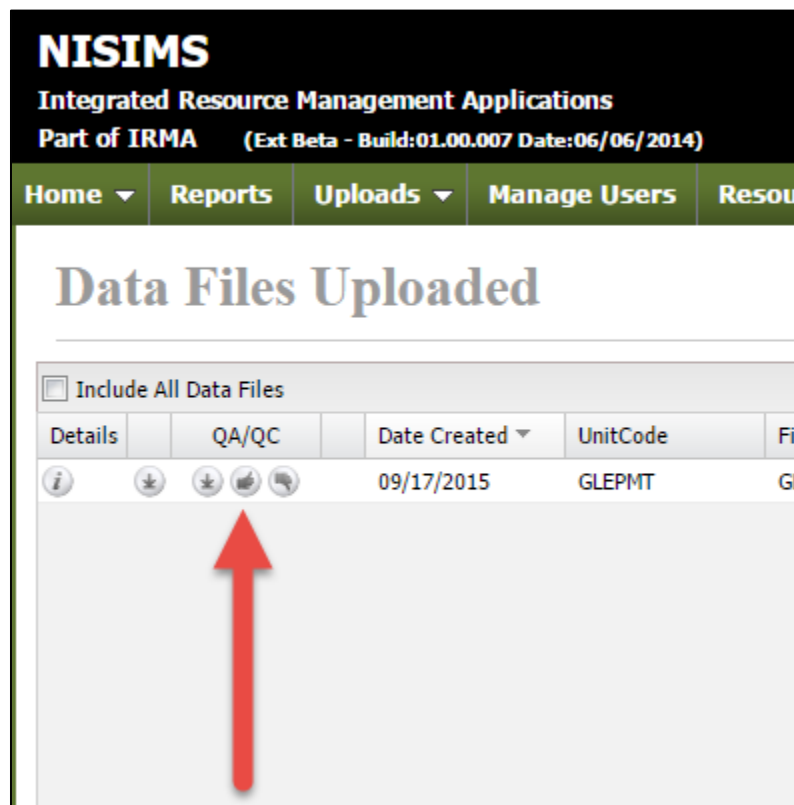


Step 3. Quality check the NISIMS Export file. Things to check for include:

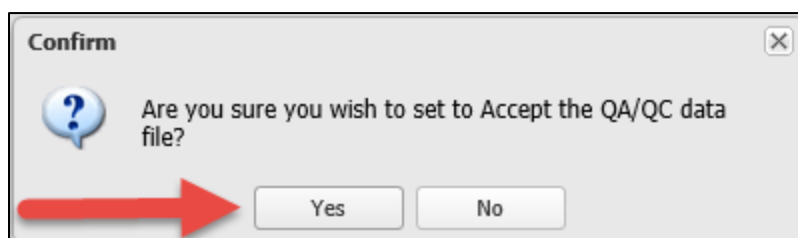
- All records have been converted
- All data has been included with each record (e.g. all species have been added for a single feature, all herbicides were recorded for a chemical record, etc.)
- All lines and points have been buffered correctly
- All polygons are in the correct location (i.e. no projection errors)
- Numbers are represented correctly (e.g. if you entered 0.05 under EST_CVR_RT, did you mean 0.05% or 5%--all cover rates are recorded as a percent, so the first will be assumed)
- Any errors that you may have realized existed after uploading to the NISIMS website
- Anything else that doesn't look right.

Step 4. Return to the “Data Files Uploaded” page (see Step 1) and select the result of your quality checking efforts.

If the data is correct and ready to be uploaded to NISIMS, click the “Accept” button.

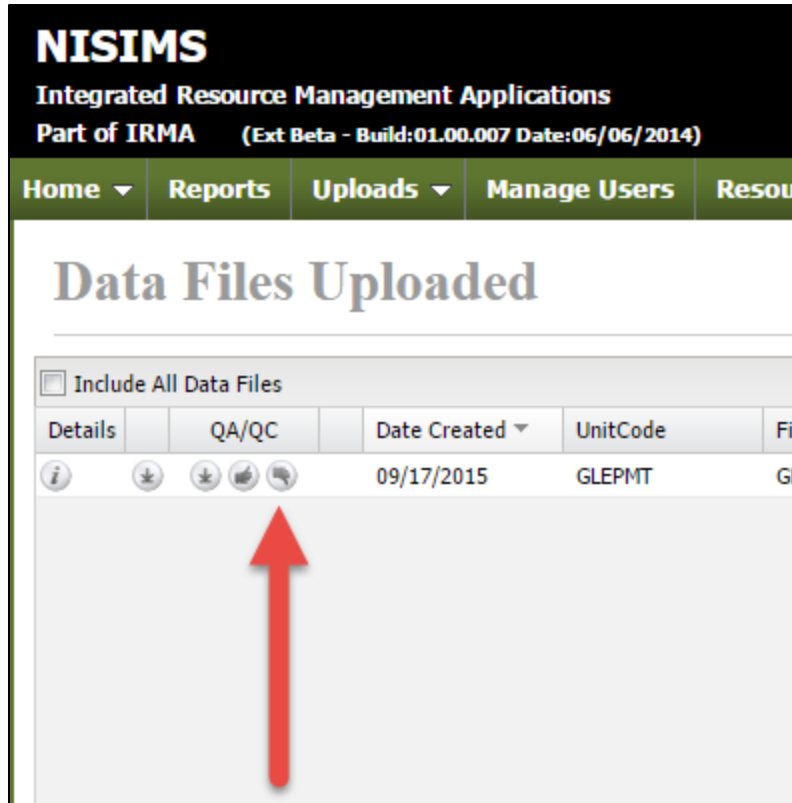


A window will pop open asking you to confirm that you wish to accept the QA/QC data. Click “Yes”.

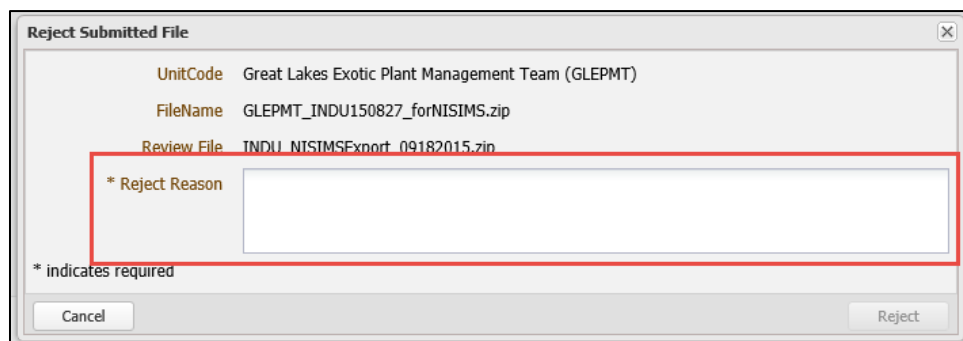


The NISIMS Data Manager will now receive notification that your data is ready to upload to the NISIMS SDE. Once she has completed this, you will receive a notification that the data has been processed.

If the data contains errors and needs to be edited prior to being uploaded to NISIMS, click the “Reject” button.



The “Reject Submitted File” window will open. Be sure to include the reason you are rejecting in the “Reject Reason” box. Include the type of errors that were found so that the NISIMS Data Manager may determine what the next steps need to be.



Once you have entered your Reject Reason, click the “Reject” button. The NISIMS Data Manager will contact you with further instructions.

Reject Submitted File

UnitCode: Great Lakes Exotic Plant Management Team (GLEPMT)

FileName: GLEPMT_INDU150827_forNISIMS.zip

Review File: INDU_NISIMSExport_09182015.zip

* Reject Reason:

* indicates required

Cancel Reject

Step 5. Once the data has been either accepted or rejected, the QA/QC buttons for that record will disappear, and the status of your record will be updated as appropriate.

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Jennifer Sieracki [Log Off]

Data Files Uploaded

☐ Include All Data Files

Details	QA/QC	Date Created	UnitCode	FileName	CreatedBy	Description	Status
		09/17/2015	GLEPMT	GLEPMT_INDU1...	RKey@nps.gov	The data for the GLEPMT crew's work at INDU from August...	Accepted

5.3 Accessing Reports

The NISIMS website provides reporting capabilities that allow users to retrieve summaries of data that have been uploaded to the NISIMS SDE geodatabase. Currently, reports are only available to those users who have been assigned to a team. All reports work in the same manner: the user creates a query selecting values from a series of drop-down menus, and a report is generated. This report may be exported in a number of formats. The instructions below provide step-by-step instructions for how to do this.

Instructions: Create and download a Weed Infestation Report from the NISIMS website.

Step 1. From the NISIMS website, click on the “Reports” tab.

The screenshot shows the NISIMS (Integrated Resource Management Applications) website. The header includes the NISIMS logo, version information (NISIMS-1.1.0_6868_20151109:11:21:00), and the National Park Service logo. A navigation bar contains links for Home, Reports, Uploads, Manage Users, Resources, My Profile, Help, and Contact Us. A red arrow points to the 'Reports' tab. The main content area displays a 'Welcome to NISIMS' message, a 'Notifications (1 item)' section with a table of notifications, and sections for 'Upload Data File' and 'Data Files Uploaded'. The footer contains links to US Department of the Interior, FOIA, Privacy Policy, Disclaimer and Ownership, NPS Home, USA.gov, Accessibility, and EXPERIENCE YOUR AMERICA.

NISIMS
Integrated Resource Management Applications
Part of IRMA (NISIMS-1.1.0_6868_20151109:11:21:00)

National Park Service
U.S. Department of the Interior
Natural Resource Stewardship and Science

Home ▾ Reports Uploads ▾ Manage Users Resources My Profile Help Contact Us

Welcome to NISIMS jsieracki

Notifications (1 item)

☐ Include Dismissed Notifications

Created ^	Team	Message
01/25/2016	SECEPMT	The Data (SECEPMT_NISIMS_Field_FIXED.gdb.zip) submitted by Lauren Serra (SECEPMT) is ready for review

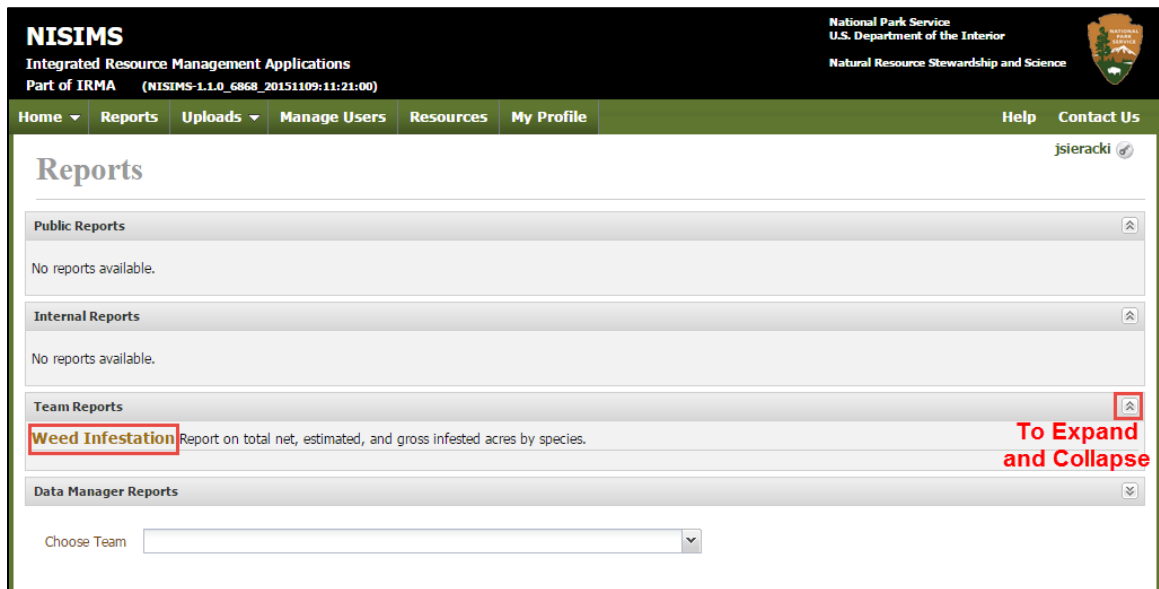
Data Set To InReview (1 Item)

Upload Data File
Upload data file to File Manager for NISIMS Data Manager to process.

Data Files Uploaded
Download data file from File Manager for processing.

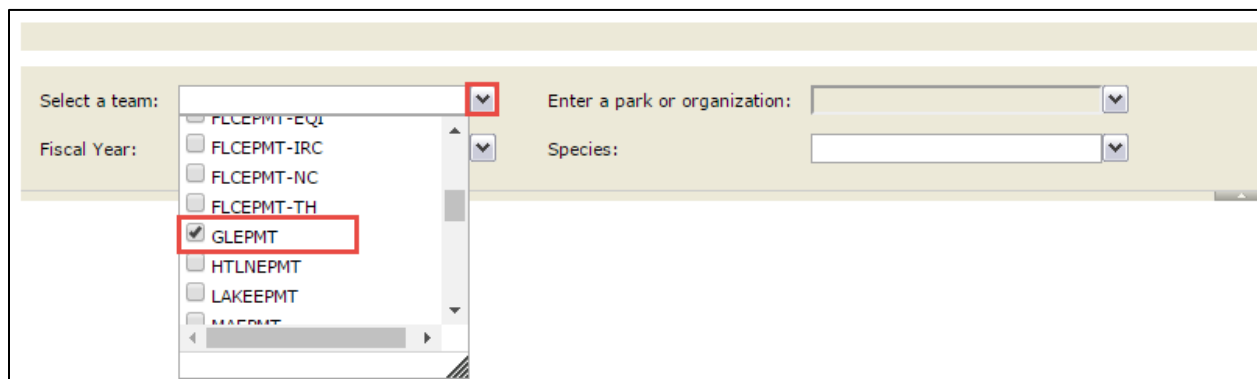
US Department of the Interior FOIA Privacy Policy Disclaimer and Ownership NPS Home USA.gov Accessibility EXPERIENCE YOUR AMERICA™

Step 2. Select the “Weed Infestation” report under the “Team Reports” heading. If you cannot see any reports listed, expand the report categories by clicking the buttons on the far right end of each heading.



Step 3. In the window that opens, select from the drop-down menus to build the desired query. For this exercise, we will create a report of all species found in all the parks served by the Great Lakes EPMT in fiscal years 2014 and 2015.

Click the arrow next to the “Select a team:” drop-down box, scroll down the list that appears, and check the box next to GLEPMT.



Click outside the drop-down menu and wait a few seconds for the “Enter a park or organization:” drop-down box to turn white.

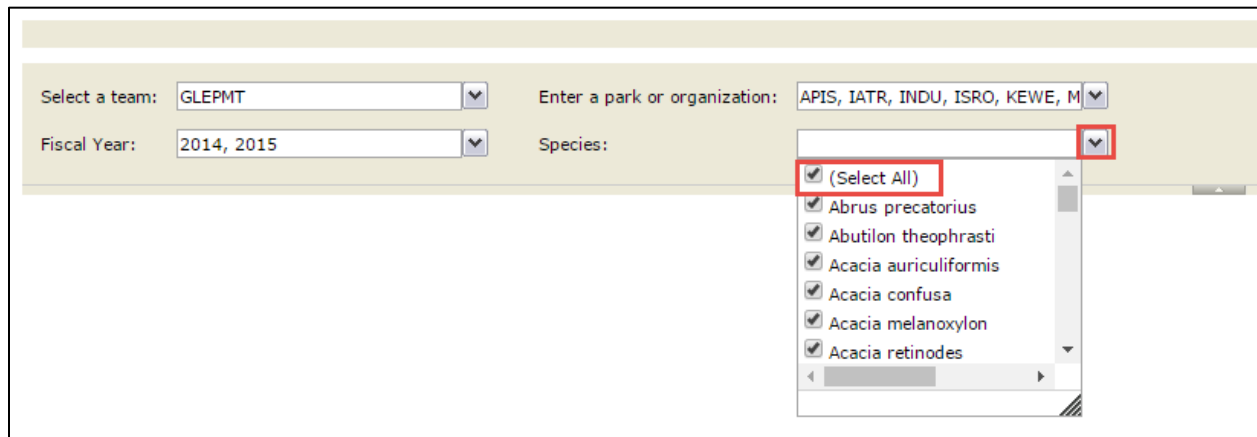
Once the “Enter a park or organization:” box has turned white, click the arrow on the right end of the box to open the drop-down list, and check the box next to “(Select All)”. All parks should now be checked. The “(Select All)” check-box may also be used to de-select all selected values.

This screenshot shows the 'Enter a park or organization:' dropdown menu open. The menu lists several options, each with a checked checkbox: (Select All), APIS, IATR, INDU, ISRO, KEWE, MISS, and OTH. The '(Select All)' option is highlighted with a red box. The background shows other form fields: 'Select a team:' with 'GLEPMT' selected, 'Fiscal Year:' with an empty dropdown, and 'Species:' with an empty dropdown.

Click the arrow on the right end of the “Fiscal Year:” drop-down box. Scroll down the list that appears and check the boxes next to 2014 and 2015.

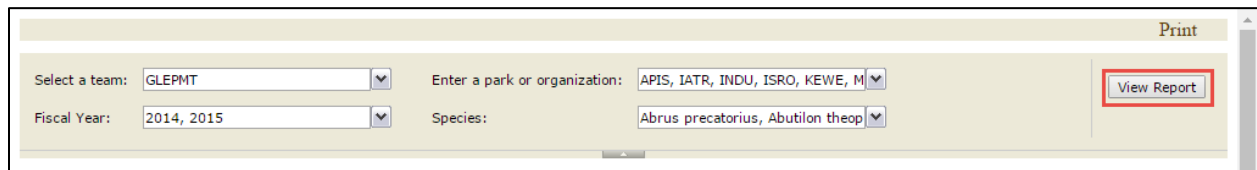
This screenshot shows the 'Fiscal Year:' dropdown menu open. The menu lists years from 2009 to 2016. The years 2014 and 2015 are checked and highlighted with red boxes. The background shows other form fields: 'Select a team:' with 'GLEPMT' selected, 'Enter a park or organization:' with 'APIS, IATR, INDU, ISRO, KEWE, M' selected, and 'Species:' with an empty dropdown.

Finally, click the arrow on the right end of the “Species:” drop-down box. Check the box next to “(Select All)” in the drop-down list that appears.



This screenshot shows the 'Species:' dropdown menu open. The menu is a list with a scroll bar on the right. The first item is '(Select All)' with a checked checkbox. Below it are several species names, each with a checked checkbox: 'Abrus precatorius', 'Abutilon theophrasti', 'Acacia auriculiformis', 'Acacia confusa', 'Acacia melanoxylon', and 'Acacia retinodes'. The dropdown arrow on the right of the 'Species:' label is highlighted with a red box.

Step 4. Once all drop-down boxes have been populated, click the “View Report” button in the upper right-hand corner of the webpage.



This screenshot shows the top section of the webpage. The 'Species:' dropdown menu is now closed, and its text displays 'Abrus precatorius, Abutilon theop'. The 'View Report' button, located in the upper right-hand corner, is highlighted with a red box. Other elements visible include the 'Select a team:' dropdown (GLEPMT), 'Enter a park or organization:' dropdown (APIS, IATR, INDU, ISRO, KEWE, M), and 'Fiscal Year:' dropdown (2014, 2015).

After a few moments, the report will appear in the empty window below the drop-down boxes.

Print Select a team: GLEPMT Enter a park or organization: APIS, IATR, INDU, ISRO, KEWE, M View Report Fiscal Year: 2014, 2015 Species: Abrus precatorius, Abutilon theop 1 of 1 Find Next						
Weed Infestation National Park Service U.S. Department of the Interior Natural Resource Stewardship and Science Biological Resources Division 						
Team	Park Unit	Species	Fiscal Year	Client	Gross Infested Acreage	Net Infested Acreage
GLEPMT	APIS	Centaurea stoebe ssp. micranthos	2014		1.514	0.008
		Cirsium	2014		4.497	0.059
		Cirsium vulgare	2014		1.514	0.008
		Leucanthemum vulgare	2014		1.514	0.227
		Lonicera	2014		0.002	0.000
		Lotus corniculatus	2014		1.514	0.227
		Melilotus officinalis	2014		1.514	0.008
		Securigera varia	2014		1.514	0.227
		Silene vulgaris	2014		1.514	0.227
		Tanacetum vulgare	2014		6.315	0.475
	IATR	Alliaria petiolata	2014		0.206	0.074
		Berberis thunbergii	2014		14.325	0.430
			2015		16.524	0.330
		Celastrus orbiculatus	2015		16.524	0.330
		Cornus racemosa	2014		2.595	0.759
			2015		45.093	2.442
		Elaeagnus umbellata	2014		14.325	0.072
		Euonymus alatus	2014		0.458	0.002

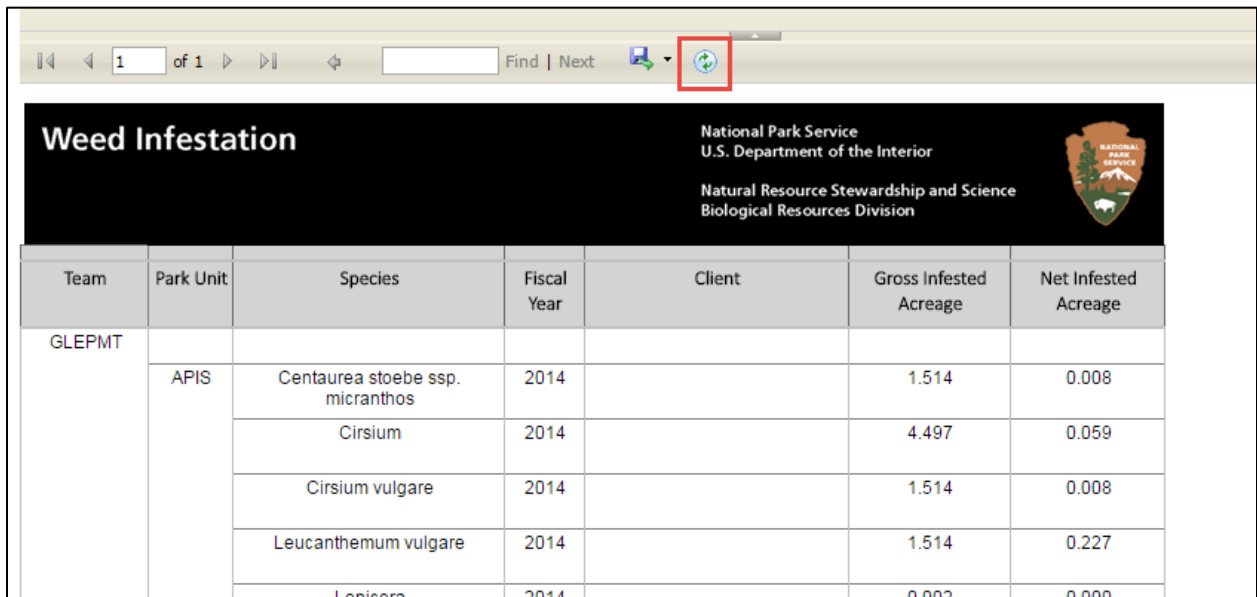
If there are multiple pages, you may navigate through the report using the “Navigate” toolbar at the top of the report.

⏪ ⏩ 1 of 1 ⏴ ⏵ ↺ Find Next 📄 🔄						
Weed Infestation National Park Service U.S. Department of the Interior Natural Resource Stewardship and Science Biological Resources Division 						
Team	Park Unit	Species	Fiscal Year	Client	Gross Infested Acreage	Net Infested Acreage
GLEPMT	APIS	Centaurea stoebe ssp. micranthos	2014		1.514	0.008
		Cirsium	2014		4.497	0.059
		Cirsium vulgare	2014		1.514	0.008
		Leucanthemum vulgare	2014		1.514	0.227
		Lonchocarpus	2014		0.002	0.000

You may also search for specific words in your report using the “Find” toolbar.

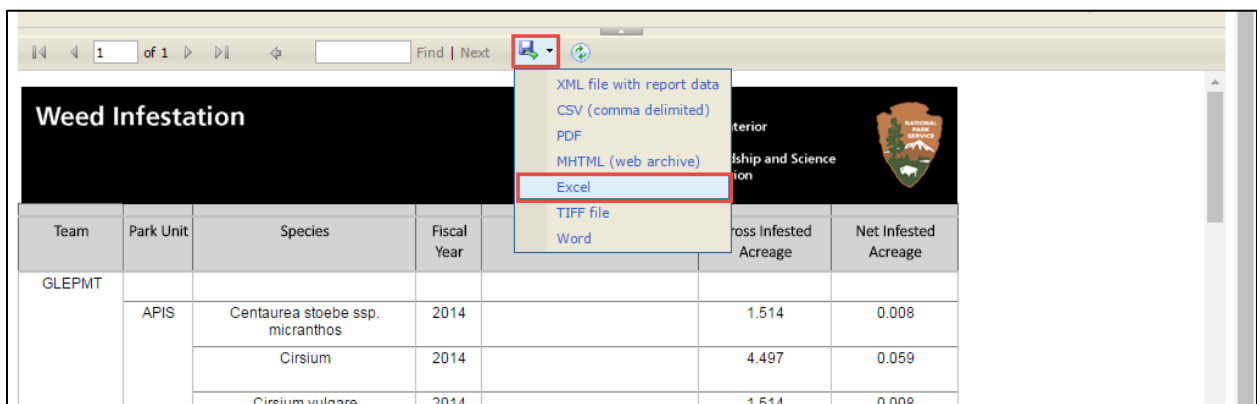
⏪ ⏩ 1 of 1 ⏴ ⏵ ↺ Find Next 📄 🔄						
Weed Infestation National Park Service U.S. Department of the Interior Natural Resource Stewardship and Science Biological Resources Division 						
Team	Park Unit	Species	Fiscal Year	Client	Gross Infested Acreage	Net Infested Acreage
GLEPMT	APIS	Centaurea stoebe ssp. micranthos	2014		1.514	0.008
		Cirsium	2014		4.497	0.059
		Cirsium vulgare	2014		1.514	0.008
		Leucanthemum vulgare	2014		1.514	0.227
		Lonchocarpus	2014		0.002	0.000

Use the “Refresh” button to refresh the report. Do not use your browsers refresh option, as this will clear your query, and you will have to rebuild it again.



Team	Park Unit	Species	Fiscal Year	Client	Gross Infested Acreage	Net Infested Acreage
GLEPMT	APIS	Centaurea stoebe ssp. micranthos	2014		1.514	0.008
		Cirsium	2014		4.497	0.059
		Cirsium vulgare	2014		1.514	0.008
		Leucanthemum vulgare	2014		1.514	0.227
		Leucanthemum vulgare	2014		1.514	0.227

Step 5. Click the “Export” button above the report. Select “Excel” to export your report as an Excel spreadsheet. You may also choose to export your report using any of the other file types available; however, Chrome blocks the export of MHTML files.



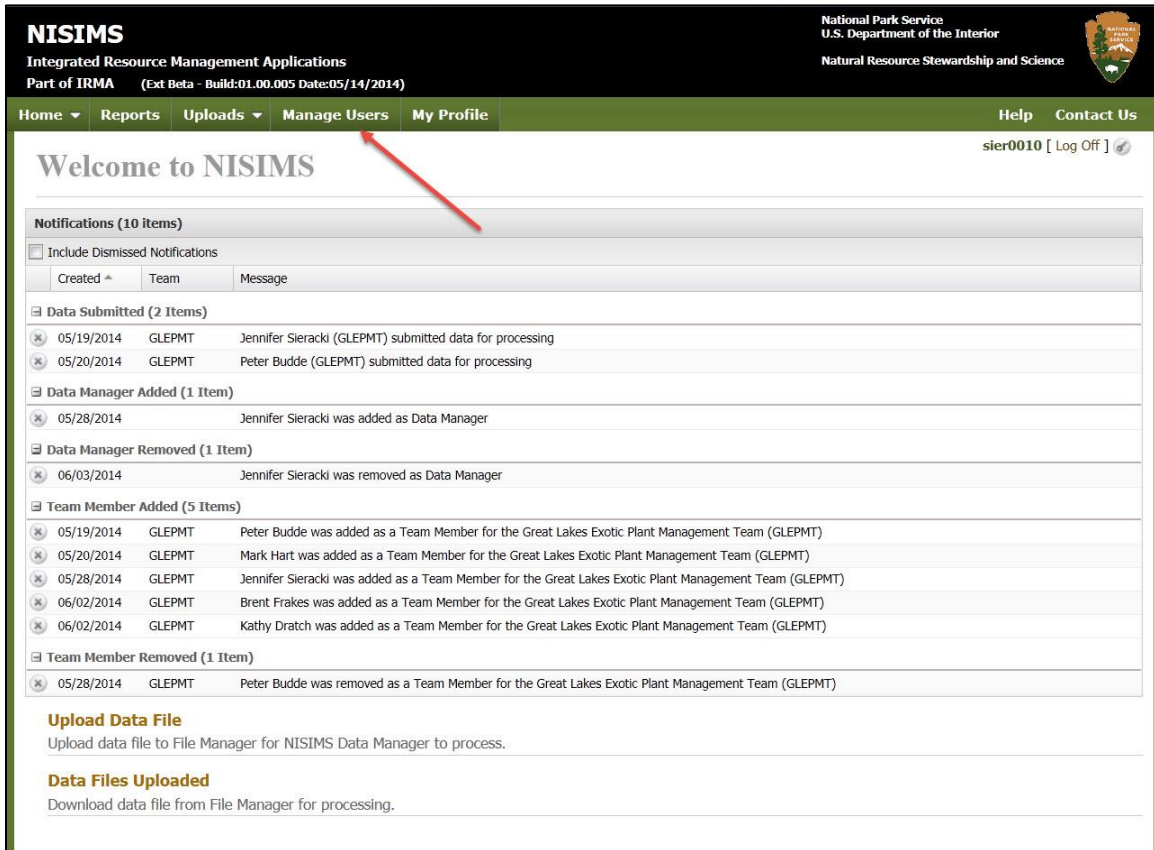
Team	Park Unit	Species	Fiscal Year	Client	Gross Infested Acreage	Net Infested Acreage
GLEPMT	APIS	Centaurea stoebe ssp. micranthos	2014		1.514	0.008
		Cirsium	2014		4.497	0.059
		Cirsium vulgare	2014		1.514	0.008

5.4 Adding Users

Once a user has been given rights to upload data for an EPMT or park, they will then be able to add additional users to their unit. Instructions for adding users follows.

Instructions: Add a user to the NISIMS web interface

Step 1. Select “Manage Users” from your home page menu.



The screenshot displays the NISIMS (Integrated Resource Management Applications) web interface. The header includes the NISIMS logo, version information (Part of IRMA, Ext Beta - Build:01.00.005 Date:05/14/2014), and the National Park Service logo. The main navigation bar contains links for Home, Reports, Uploads, Manage Users, and My Profile. A red arrow points to the 'Manage Users' link. The 'Welcome to NISIMS' message is visible, along with a user login status (sier0010 [Log Off]). Below the welcome message, there is a 'Notifications (10 Items)' section with a table listing various events, including data submissions, manager additions/removals, and team member additions/removals. At the bottom, there are sections for 'Upload Data File' and 'Data Files Uploaded'.

NISIMS
Integrated Resource Management Applications
Part of IRMA (Ext Beta - Build:01.00.005 Date:05/14/2014)

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Home Reports Uploads **Manage Users** My Profile Help Contact Us

Welcome to NISIMS sier0010 [Log Off]

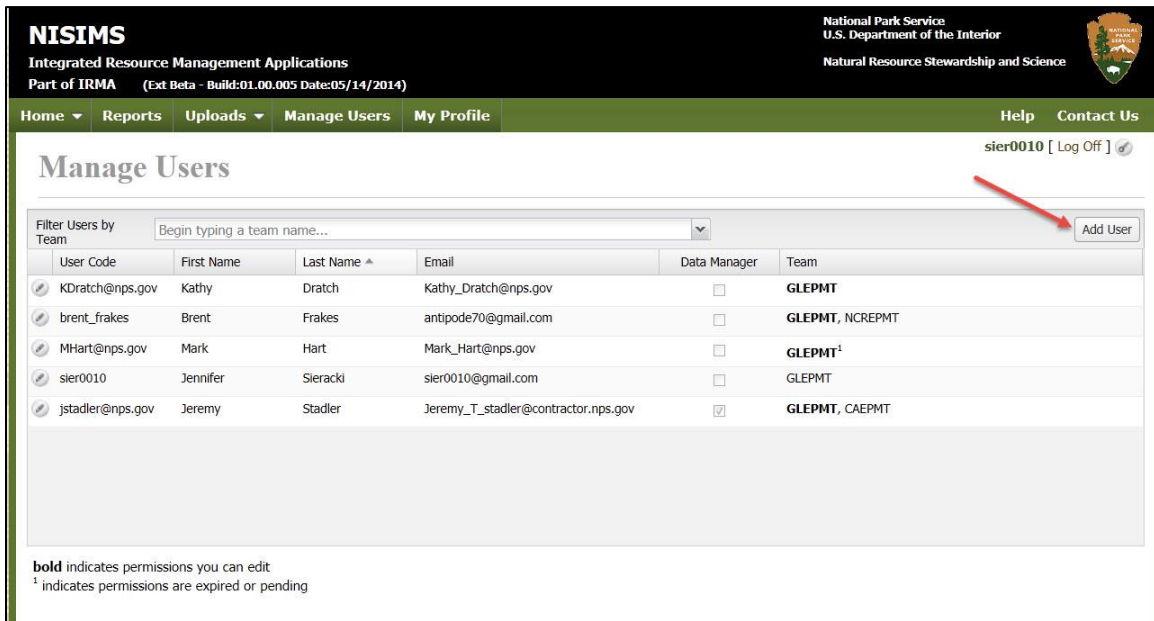
Notifications (10 Items)
☐ Include Dismissed Notifications

Created	Team	Message
Data Submitted (2 Items)		
05/19/2014	GLEPMT	Jennifer Sieracki (GLEPMT) submitted data for processing
05/20/2014	GLEPMT	Peter Budde (GLEPMT) submitted data for processing
Data Manager Added (1 Item)		
05/28/2014		Jennifer Sieracki was added as Data Manager
Data Manager Removed (1 Item)		
06/03/2014		Jennifer Sieracki was removed as Data Manager
Team Member Added (5 Items)		
05/19/2014	GLEPMT	Peter Budde was added as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)
05/20/2014	GLEPMT	Mark Hart was added as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)
05/28/2014	GLEPMT	Jennifer Sieracki was added as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)
06/02/2014	GLEPMT	Brent Frakes was added as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)
06/02/2014	GLEPMT	Kathy Dratch was added as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)
Team Member Removed (1 Item)		
05/28/2014	GLEPMT	Peter Budde was removed as a Team Member for the Great Lakes Exotic Plant Management Team (GLEPMT)

Upload Data File
Upload data file to File Manager for NISIMS Data Manager to process.

Data Files Uploaded
Download data file from File Manager for processing.

Step 2. From the “Manage Users” page, click the “Add User” button.



NISIMS
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Part of IRMA (Ext Beta - Build:01.00.005 Date:05/14/2014)

National Park Service
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Home ▾ Reports Uploads ▾ Manage Users My Profile Help Contact Us

sier0010 [Log Off]

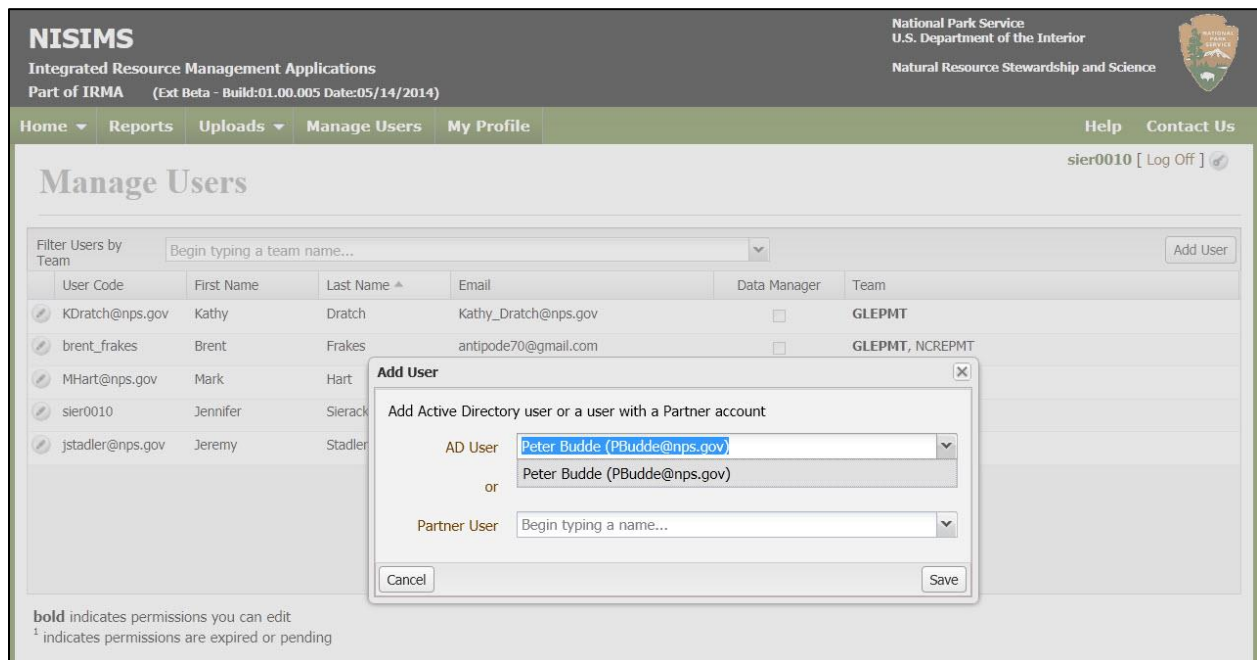
Manage Users

Filter Users by Team: Begin typing a team name...

User Code	First Name	Last Name ▲	Email	Data Manager	Team
KDratch@nps.gov	Kathy	Dratch	Kathy_Dratch@nps.gov	☐	GLEPMT
brent_frakes	Brent	Frakes	antipode70@gmail.com	☐	GLEPMT, NCREPMT
MHart@nps.gov	Mark	Hart	Mark_Hart@nps.gov	☐	GLEPMT ¹
sier0010	Jennifer	Sieracki	sier0010@gmail.com	☐	GLEPMT
jstadler@nps.gov	Jeremy	Stadler	Jeremy_T_stadler@contractor.nps.gov	☒	GLEPMT, CAEPMT

bold indicates permissions you can edit
¹ indicates permissions are expired or pending

The “Add User” form will pop up. Begin typing the name of the user you want to add from the appropriate drop-down list. A list of potential users will build below the name you are typing. Select the user you want to add from the drop-down list and click “Save”.



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Part of IRMA (Ext Beta - Build:01.00.005 Date:05/14/2014)

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Home ▾ Reports Uploads ▾ Manage Users My Profile Help Contact Us

sier0010 [Log Off]

Manage Users

Filter Users by Team: Begin typing a team name...

User Code	First Name	Last Name ▲	Email	Data Manager	Team
KDratch@nps.gov	Kathy	Dratch	Kathy_Dratch@nps.gov	☐	GLEPMT
brent_frakes	Brent	Frakes	antipode70@gmail.com	☐	GLEPMT, NCREPMT
MHart@nps.gov	Mark	Hart	Mark_Hart@nps.gov	☐	GLEPMT ¹
sier0010	Jennifer	Sieracki	sier0010@gmail.com	☐	GLEPMT
jstadler@nps.gov	Jeremy	Stadler	Jeremy_T_stadler@contractor.nps.gov	☒	GLEPMT, CAEPMT

bold indicates permissions you can edit
¹ indicates permissions are expired or pending

Add User

Add Active Directory user or a user with a Partner account

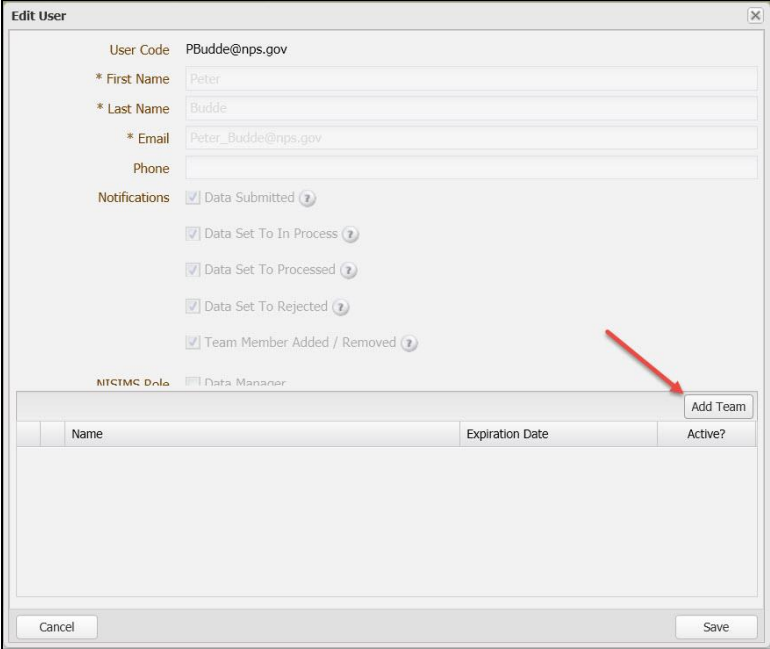
AD User: Peter Budde (PBudde@nps.gov)

or

Partner User: Begin typing a name...

Cancel Save

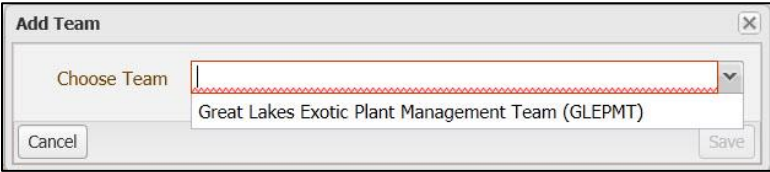
Step 3. Click the “Add Team” button from the “Edit User” form.



The 'Edit User' form contains the following fields and options:

- User Code: PBudde@nps.gov
- * First Name: Peter
- * Last Name: Budde
- * Email: Peter_Budde@nps.gov
- Phone: (empty)
- Notifications:
 - ☒ Data Submitted ?
 - ☒ Data Set To In Process ?
 - ☒ Data Set To Processed ?
 - ☒ Data Set To Rejected ?
 - ☒ Team Member Added / Removed ?
- MITCIMS Data: ☐ Data Manager
- Buttons: Add Team (highlighted with a red arrow), Cancel, Save
- Table with columns: Name, Expiration Date, Active?

Step 4. The “Add Team” form will pop up. Select the team to which you wish to give the new user access from the drop-down list and click “Save”.



The 'Add Team' form contains the following elements:

- Choose Team: (dropdown menu showing 'Great Lakes Exotic Plant Management Team (GLEPMT)')
- Buttons: Cancel, Save

The team will be added to the user's profile.

The 'Edit User' dialog box displays the following information:

- User Code: PBudde@nps.gov
- * First Name: Peter
- * Last Name: Budde
- * Email: Peter_Budde@nps.gov
- Phone: (empty field)
- Notifications: ☒ Data Submitted, ☒ Data Set To In Process, ☒ Data Set To Processed, ☒ Data Set To Rejected, ☒ Team Member Added / Removed
- MITCIMS Data: ☐ Data Manager
- Table with columns: Name, Expiration Date, Active?
 - Great Lakes Exotic Plant Management Team (GLEPMT) (Active)
- Buttons: Add Team, Cancel, Save

Step 5. (Optional) You may add an expiration date to allow the user access to the team's data. Do this by clicking the Edit button next to the team name. This will allow you to edit the date field. Click the "Update" button when done.

The 'Edit User' dialog box is shown with the team's expiration date updated:

- User Code: PBudde@nps.gov
- * First Name: Peter
- * Last Name: Budde
- * Email: Peter_Budde@nps.gov
- Phone: (empty field)
- Notifications: ☒ Data Submitted, ☒ Data Set To In Process, ☒ Data Set To Processed, ☒ Data Set To Rejected, ☒ Team Member Added / Removed
- MITCIMS Data: ☐ Data Manager
- Table with columns: Name, Expiration Date, Active?
 - Great Lakes Exotic Plant Management Team (GLEPMT) (Expiration Date: 06/25/2014, Active)
- Buttons: Add Team, Update, Cancel, Cancel, Save

A red arrow points to the edit icon (pencil) next to the team name.

Step 6. Click the “Save” button once all edits are complete.

Edit User

User Code: PBudde@nps.gov

* First Name: Peter

* Last Name: Budde

* Email: Peter_Budde@nps.gov

Phone:

Notifications:

- ☒ Data Submitted
- ☒ Data Set To In Process
- ☒ Data Set To Processed
- ☒ Data Set To Rejected
- ☒ Team Member Added / Removed

NISIMS Data Manager

Name	Expiration Date	Active?
Great Lakes Exotic Plant Management Team (GLEPMT)	06/25/2014	☒

Cancel Save

The new user will now appear on the “Manage Users” page. You may further edit and delete user profiles from this list. You will receive notification via email that a new user has been added.

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Home Reports Uploads **Manage Users** My Profile Help Contact Us

sier0010 [Log Off]

Manage Users

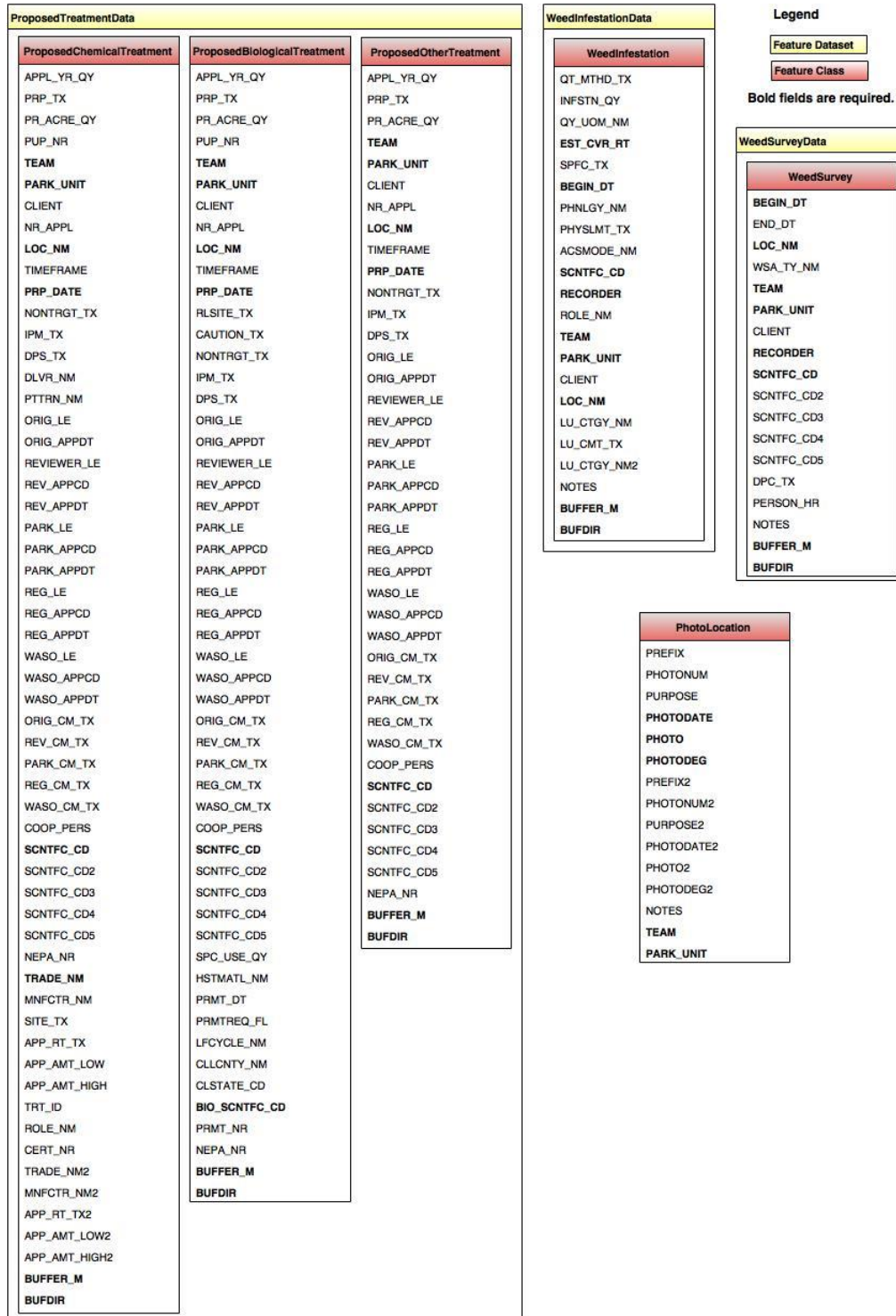
Filter Users by Team: Begin typing a team name... Add User

User Code	First Name	Last Name	Email	Data Manager	Team
PBudde@nps.gov	Peter	Budde	Peter_Budde@nps.gov	☐	GLEPMT
KDratch@nps.gov	Kathy	Dratch	Kathy_Dratch@nps.gov	☐	GLEPMT
brent_frakes	Brent	Frakes	antipode70@gmail.com	☐	GLEPMT, NCREPMT
MHart@nps.gov	Mark	Hart	Mark_Hart@nps.gov	☐	GLEPMT ¹
sier0010	Jennifer	Sieracki	sier0010@gmail.com	☐	GLEPMT
jstadler@nps.gov	Jeremy	Stadler	Jeremy_T_stadler@contractor.nps.gov	☒	GLEPMT, CAEPMT

bold indicates permissions you can edit
¹ indicates permissions are expired or pending

Appendix A: NISIMS Field Geodatabase Diagram

The diagram depicts the line feature classes for each of the data types included in the geodatabase. The field geodatabase also includes a point and polygon feature class for each data type, as well. Only points are collected for photo locations.



4						
BiologicalComponent	ChemicalComponent	FireComponent	ManualComponent	MechanicalComponent	MechanicalComponent	RevegetationComponent
AREA_TV_NM	AREA_TV_NM	AREA_TV_NM	AREA_TV_NM	AREA_TV_NM	AREA_TV_NM	AREA_TV_NM
TEMP_TREAT_SITE	TEMP_TREAT_SITE	TEMP_TREAT_SITE	TEMP_TREAT_SITE	TEMP_TREAT_SITE	TEMP_TREAT_SITE	TEMP_TREAT_SITE
LOC_NM	LOC_NM	LOC_NM	LOC_NM	LOC_NM	LOC_NM	LOC_NM
TEAM	TEAM	TEAM	TEAM	TEAM	TEAM	TEAM
PARK_UNIT	PARK_UNIT	PARK_UNIT	PARK_UNIT	PARK_UNIT	PARK_UNIT	PARK_UNIT
CLIENT	CLIENT	CLIENT	CLIENT	CLIENT	CLIENT	CLIENT
RECORDER	RECORDER	RECORDER	RECORDER	RECORDER	RECORDER	RECORDER
ROLE_NM	ROLE_NM	ROLE_NM	ROLE_NM	ROLE_NM	ROLE_NM	ROLE_NM
TRT_BEG_DT	TRT_BEG_DT	TRT_BEG_DT	TRT_BEG_DT	TRT_BEG_DT	TRT_BEG_DT	TRT_BEG_DT
TRT_END_DT	TRT_END_DT	TRT_END_DT	TRT_END_DT	TRT_END_DT	TRT_END_DT	TRT_END_DT
PHNLOGY_NM	PHNLOGY_NM	PHNLOGY_NM	PHNLOGY_NM	PHNLOGY_NM	PHNLOGY_NM	PHNLOGY_NM
DPC_TX	DPC_TX	DPC_TX	DPC_TX	DPC_TX	DPC_TX	DPC_TX
SCNTFC_CD	SCNTFC_CD	SCNTFC_CD	SCNTFC_CD	SCNTFC_CD	SCNTFC_CD	SCNTFC_CD
EST_CVR_RT	EST_CVR_RT	EST_CVR_RT	EST_CVR_RT	EST_CVR_RT	EST_CVR_RT	EST_CVR_RT
TRT_QTY	TRT_QTY	TRT_QTY	TRT_QTY	TRT_QTY	TRT_QTY	TRT_QTY
SCNTFC_CD2	SCNTFC_CD2	SCNTFC_CD2	SCNTFC_CD2	SCNTFC_CD2	SCNTFC_CD2	SCNTFC_CD2
EST_CVR_RT2	EST_CVR_RT2	EST_CVR_RT2	EST_CVR_RT2	EST_CVR_RT2	EST_CVR_RT2	TRT_QTY2
TRT_QTY2	TRT_QTY2	TRT_QTY2	TRT_QTY2	TRT_QTY2	TRT_QTY2	EST_CVR_RT2
SCNTFC_CD3	SCNTFC_CD3	SCNTFC_CD3	SCNTFC_CD3	SCNTFC_CD3	SCNTFC_CD3	SCNTFC_CD3
EST_CVR_RT3	EST_CVR_RT3	EST_CVR_RT3	EST_CVR_RT3	EST_CVR_RT3	EST_CVR_RT3	EST_CVR_RT3
TRT_QTY3	TRT_QTY3	TRT_QTY3	TRT_QTY3	TRT_QTY3	TRT_QTY3	TRT_QTY3
SCNTFC_CD4	SCNTFC_CD4	SCNTFC_CD4	SCNTFC_CD4	SCNTFC_CD4	SCNTFC_CD4	SCNTFC_CD4
EST_CVR_RT4	EST_CVR_RT4	EST_CVR_RT4	EST_CVR_RT4	EST_CVR_RT4	EST_CVR_RT4	EST_CVR_RT4
TRT_QTY4	TRT_QTY4	TRT_QTY4	TRT_QTY4	TRT_QTY4	TRT_QTY4	TRT_QTY4
SCNTFC_CD5	SCNTFC_CD5	SCNTFC_CD5	SCNTFC_CD5	SCNTFC_CD5	SCNTFC_CD5	SCNTFC_CD5
EST_CVR_RT5	EST_CVR_RT5	EST_CVR_RT5	EST_CVR_RT5	EST_CVR_RT5	EST_CVR_RT5	EST_CVR_RT5
TRT_QTY5	TRT_QTY5	TRT_QTY5	TRT_QTY5	TRT_QTY5	TRT_QTY5	TRT_QTY5
BUP_NR	MIXUOM_NM	INTNSTV_NM	MANL_CL_NM	MECH_CL_NM	REST_CL_NM	STOCK_ME
BIO_SCNTFC_CD	MIXVOL_ME	FUELMDL_TX	PERSON_HR	PERSON_HR	REST_CL_NM2	VEG_UOM_NM
SPC_USE_QY	CARR_TV_NM	PERSON_HR	NOTES	BUFFER_M	REST_CL_NM3	REVEG_PHNLOGY_NM
PRTCNTH_TX	RLSDRCT_TX	NOTES	BUFFER_M	BUFDIR	REST_CL_NM4	SEEDLOT_NR
RLSDRCT_TX	PUP_NR	BUFFER_M	BUFDIR	NOTES	REST_CL_NM5	RVG_SCNTFC_CD
SOURCE	DLVR_NM	BUFDIR			PERSON_HR	PERSON_HR
HSTMATL_NM	PITRN_NM				BUFFER_M	NOTES
LFCYCLE_NM	WTRDIST_TX				BUFDIR	BUFFER_M
CLLGNTY_NM	TRT_BEG_TM				NOTES	BUFDIR
COLLECT_DT	TRT_END_TM					
CLSTATE_CD	PERSON_HR					
FA_AIR_ME	EQ_OUT_RT					
WNDMPH_ME	EQ_UOM_NM					
SL_MOIS_NM	EQ_TV_NM					
WNDDRCT_CD	FA_AIR_ME					
PERSON_HR	P_AFTER_QY					
NOTES	HUMID_RT					
BUFFER_M	WNDMPH_ME					
BUFDIR	SL_MOIS_NM					
	PRECIP_NM					
	WNDDRCT_CD					
	TRADE_NM					
	EPAREGISTRATIONNUMBER					
	AGT_APP_RT					
	APP_UOM_NM					
	ACTLUSE_QY					
	AGT_UOM_NM					
	MNFCTR_NM					
	TRADE_NM2					
	EPAREGISTRATIONNUMBER2					
	AGT_APP_RT2					
	APP_UOM_NM2					
	ACTLUSE_QY2					
	AGT_UOM_NM2					
	MNFCTR_NM2					
	ADI_TRADE_NM					
	ADI_ACTLUSE_QTY					
	ADI_AGT_UOM_NM					
	ADI_AGT_APP_RT					
	ADI_APP_UOM_NM					
	ADI_TRADE_NM2					
	ADI_ACTLUSE_QTY2					
	ADI_AGT_UOM_NM2					
	ADI_AGT_APP_RT2					
	ADI_APP_UOM_NM2					
	NOTES					
	BUFFER_M					
	BUFDIR					

Appendix B: NISIMS Data Dictionary Structure

In the NISIMS Data Dictionary, each field includes a prefix identified by the type of feature collected (i.e. pt = point, ln = line, py = polygon). Only the photo point fields do not include a prefix.

NISIMSpT			
All Data	ptACSMODE_NM	ptBIO_WNDMPH_ME	ptAPP_UOM_NM
ptBEGIN_DT	Infestation Land Uses	ptBIO_SL_MOIS_NM	ptACTLUSE_QY
ptEND_DT	<i>ptLandUses</i>	ptBIO_WNDDRCT_CD	ptAGT_UOM_NM
ptTEAM	ptLU_CTGY_NM	Chemical Data	Adjuvant Data
ptPARK_UNIT	ptLU_CTGY_NM2	ptTRT_BEG_TM	<i>ptadnum</i>
ptCLIENT	ptLU_CMT_TX	ptTRT_END_TM	ptADJ_TRADE_NM
ptRECORDER	TreatmentData	ptPUP_NR	ptADJ_ACTLUSE_QTY
ptROLE_NM	ptCMP_TY_NM	ptCARR_TY_NM	ptADJ_AGT_UOM_NM
ptBUFFER_M	ptAREA_TY_NM	ptMIXVOL_ME	ptAGT_APP_RT
ptLOC_NM	ptTEMP_TREAT_SITE	ptMIXUOM_NM	ptADJ_APP_UOM_NM
<i>ptSURVEY</i>	ptTRT_PHNLGY_NM	ptCHEM_RLSDRCT_TX	Fire Data
<i>ptInvasives</i>	ptTRT_DPC_TX	ptDLVR_NM	ptINTNSTY_NM
<i>ptTreatment</i>	ptTRT_PERSON_HR	ptPTRN_NM	ptFUELMDL_TX
<i>ptspeciesnum</i>	Biological Data	ptEQ_TY_NM	Manual Data
Species	ptBUP_NR	ptEQ_OUT_RT	ptMANL_CL_NM
ptSCNTFC_NM	ptBIO_SCNTFC_NM	ptEQ_UOM_NM	Mechanical Data
ptEST_CVR_RT	ptSPC_USE_QY	ptWTRDIST_TX	ptMECH_CL_NM
ptPHNLGY_NM	ptPRTCMTH_TX	ptCHEM_FA_AIR_ME	Restoration Data
ptINFSTN_QY	ptBIO_RLSDRCT_TX	ptP_AFTER_QY	<i>ptrestnum</i>
ptQY_UOM_NM	ptSPC_USE_QY	ptHUMID_RT	ptREST_CL_NM
ptTRT_QTY	ptPRTCMTH_TX	ptCHEM_WNDMPH_ME	Revegetation Data
SurveyData	ptBIO_RLSDRCT_TX	ptCHEM_SL_MOIS_NM	ptSTOCK_ME
ptWSA_TY_NM	ptSOURCE	ptPRECIP_NM	ptVEG_UOM_NM
ptSURV_DPC_TX	ptHSTMATL_NM	Chemical Agent Data	ptREVEG_PHNLGY_NM
ptSURV_PERSON_HR	ptLFCYCLE_NME	<i>ptchemnum</i>	ptSEEDLOT_NR
InfestationData	ptCLLCNTY_NM	ptTRADE_NM	ptRVG_SCNTFC_NM
ptQT_MTHD_TX	ptCOLLECT_DT	ptMNFCTR_NM	Notes
ptSPFC_TX	ptCLSTATE_CD	ptEPAREGNUM	ptNOTES
ptPHYSLMT_TX	ptBIO_FA_AIR_ME	ptAGT_APP_RT	

Bold fields are required.

Italicized fields provide function to the data dictionary, and do not contain NISIMS data.

NISIMSI			
All Data	lnACSMODE_NM	lnBIO_SL_MOIS_NM	lnAGT_UOM_NM
lnBEGIN_DT	Infestation Land Uses	lnBIO_WNDDRCT_CD	Adjuvant Data
lnEND_DT	<i>lnLandUses</i>	Chemical Data	<i>lnadnum</i>
lnTEAM	lnLU_CTGY_NM	lnTRT_BEG_TM	lnADJ_TRADE_NM
lnPARK_UNIT	lnLU_CTGY_NM2	lnTRT_END_TM	lnADJ_ACTLUSE_QTY
lnCLIENT	lnLU_CMT_TX	lnPUP_NR	lnADJ_AGT_UOM_NM
lnRECORDER	TreatmentData	lnCARR_TY_NM	lnAGT_APP_RT
lnROLE_NM	lnCMP_TY_NM	lnMIXVOL_ME	lnADJ_APP_UOM_NM
lnBUFFER_M	lnAREA_TY_NM	lnMIXUOM_NM	Fire Data
lnBUFDIR	lnTEMP_TREAT_SITE	lnCHEM_RLSDRCT_TX	lnINTNSTY_NM
lnLOC_NM	lnTRT_PHNLGY_NM	lnDLVR_NM	lnFUELMDL_TX
<i>lnSURVEY</i>	lnTRT_DPC_TX	lnPTTRN_NM	Manual Data
<i>lnInvasives</i>	lnTRT_PERSON_HR	lnEQ_TY_NM	lnMANL_CL_NM
<i>lnTreatment</i>	Biological Data	lnEQ_OUT_RT	Mechanical Data
<i>lnspeciesnum</i>	lnBUP_NR	lnEQ_UOM_NM	lnMECH_CL_NM
Species	lnBIO_SCNTFC_NM	lnWTRDIST_TX	Restoration Data
lnSCNTFC_NM	lnSPC_USE_QY	lnCHEM_FA_AIR_ME	<i>lnrestnum</i>
lnEST_CVR_RT	lnPRTCMTH_TX	lnP_AFTER_QY	lnREST_CL_NM
lnPHNLGY_NM	lnBIO_RLSDRCT_TX	lnHUMID_RT	Revegetation Data
lnINFSTN_QY	lnSPC_USE_QY	lnCHEM_WNDMPH_ME	lnSTOCK_ME
lnQY_UOM_NM	lnPRTCMTH_TX	lnCHEM_SL_MOIS_NM	lnVEG_UOM_NM
lnTRT_QTY	lnBIO_RLSDRCT_TX	lnPRECIP_NM	lnREVEG_PHNLGY_NM
SurveyData	lnSOURCE	Chemical Agent Data	lnSEEDLOT_NR
lnWSA_TY_NM	lnHSTMATL_NM	<i>lnchemnum</i>	lnRVG_SCNTFC_NM
lnSURV_DPC_TX	lnLFCYCLE_NME	lnTRADE_NM	Notes
lnSURV_PERSON_HR	lnCLLCNTY_NM	lnMNFCTR_NM	lnNOTES
InfestationData	lnCOLLECT_DT	lnEPAREGNUM	
lnQT_MTHD_TX	lnCLSTATE_CD	lnAGT_APP_RT	
lnSPFC_TX	lnBIO_FA_AIR_ME	lnAPP_UOM_NM	
lnPHYSLMT_TX	lnBIO_WNDMPH_ME	lnACTLUSE_QY	

Bold fields are required.

Italicized fields provide function to the data dictionary, and do not contain NISIMS data.

NISIMSpy			
All Data	Infestation Land Uses	pyBIO_SL_MOIS_NM	pyACTLUSE_QY
pyBEGIN_DT	<i>pyLandUses</i>	pyBIO_WNDDRCT_CD	pyAGT_UOM_NM
pyEND_DT	pyLU_CTGY_NM	Chemical Data	Adjuvant Data
pyTEAM	pyLU_CTGY_NM2	pyTRT_BEG_TM	<i>pyadnum</i>
pyPARK_UNIT	pyLU_CMT_TX	pyTRT_END_TM	pyADJ_TRADE_NM
pyCLIENT	TreatmentData	pyPUP_NR	pyADJ_ACTLUSE_QTY
pyRECORDER	pyCMP_TY_NM	pyCARR_TY_NM	pyADJ_AGT_UOM_NM
pyROLE_NM	pyAREA_TY_NM	pyMIXVOL_ME	pyAGT_APP_RT
pyLOC_NM	pyTEMP_TREAT_SITE	pyMIXUOM_NM	pyADJ_APP_UOM_NM
<i>pySURVEY</i>	pyTRT_PHNLGY_NM	pyCHEM_RLSDRCT_TX	Fire Data
<i>pyInvasives</i>	pyTRT_DPC_TX	pyDLVR_NM	pyINTNSTY_NM
<i>pyTreatment</i>	pyTRT_PERSON_HR	pyPTTRN_NM	pyFUELMDL_TX
<i>pyspeciesnum</i>	Biological Data	pyEQ_TY_NM	Manual Data
Species	pyBUP_NR	pyEQ_OUT_RT	pyMANL_CL_NM
pySCNTFC_NM	pyBIO_SCNTFC_NM	pyEQ_UOM_NM	Mechanical Data
pyEST_CVR_RT	pySPC_USE_QY	pyWTRDIST_TX	pyMECH_CL_NM
pyPHNLGY_NM	pyPRTCMTH_TX	pyCHEM_FA_AIR_ME	Restoration Data
pyINFSTN_QY	pyBIO_RLSDRCT_TX	pyP_AFTER_QY	<i>Inrestman</i>
pyQY_UOM_NM	pySPC_USE_QY	pyHUMID_RT	pyREST_CL_NM
pyTRT_QTY	pyPRTCMTH_TX	pyCHEM_WNDMPH_ME	Revegetation Data
SurveyData	pyBIO_RLSDRCT_TX	pyCHEM_SL_MOIS_NM	pySTOCK_ME
pyWSA_TY_NM	pySOURCE	pyPRECIP_NM	pyVEG_UOM_NM
pySURV_DPC_TX	pyHSTMATL_NM	Chemical Agent Data	pyREVEG_PHNLGY_NM
pySURV_PERSON_HR	pyLFCYCLE_NME	<i>pychemnum</i>	pySEEDLOT_NR
InfestationData	pyCLLCNTY_NM	pyTRADE_NM	pyRVG_SCNTFC_NM
pyQT_MTHD_TX	pyCOLLECT_DT	pyMNFCTR_NM	Notes
pySPFC_TX	pyCLSTATE_CD	pyEPAREGNUM	pyNOTES
pyPHYSMT_TX	pyBIO_FA_AIR_ME	pyAGT_APP_RT	
pyACSMODE_NM	pyBIO_WNDMPH_ME	pyAPP_UOM_NM	

Bold fields are required.

Italicized fields provide function to the data dictionary, and do not contain NISIMS data.

PhotoPts
TEAM
PARK_UNIT
Photo Data
<i>photonum?</i>
PHOTO
PHOTODATE
PURPOSE
PHOTODEG

Bold fields are required.

Italicized fields provide function to the data dictionary, and do not contain NISIMS data.

Appendix C: Links to NISIMS Files and Documents

NISIMS Web Interface:

<https://irma.nps.gov/NISIMS>

NISIMS Field Geodatabase:

<https://irma.nps.gov/App/Reference/Profile/2216090>

NISIMS Data Dictionary:

<https://irma.nps.gov/App/Reference/Profile/2222335>

NISIMS Species Lists:

NISIMS Invasive Plants List: <https://irma.nps.gov/App/Reference/Profile/2222379>

NISIMS Approved Biocontrol Agent Species List:

<https://irma.nps.gov/App/Reference/Profile/2222380>

NISIMS Revegetation Species List: <https://irma.nps.gov/App/Reference/Profile/2222381>

NISIMS Field and Domains Guide:

<https://irma.nps.gov/DataStore/Reference/Profile/2229150>

NISIMS Technical User Guide:

<https://irma.nps.gov/DataStore/Reference/Profile/2229151>

APCAM to NISIMS Crosswalk:

<https://irma.nps.gov/App/Reference/Profile/2216092>