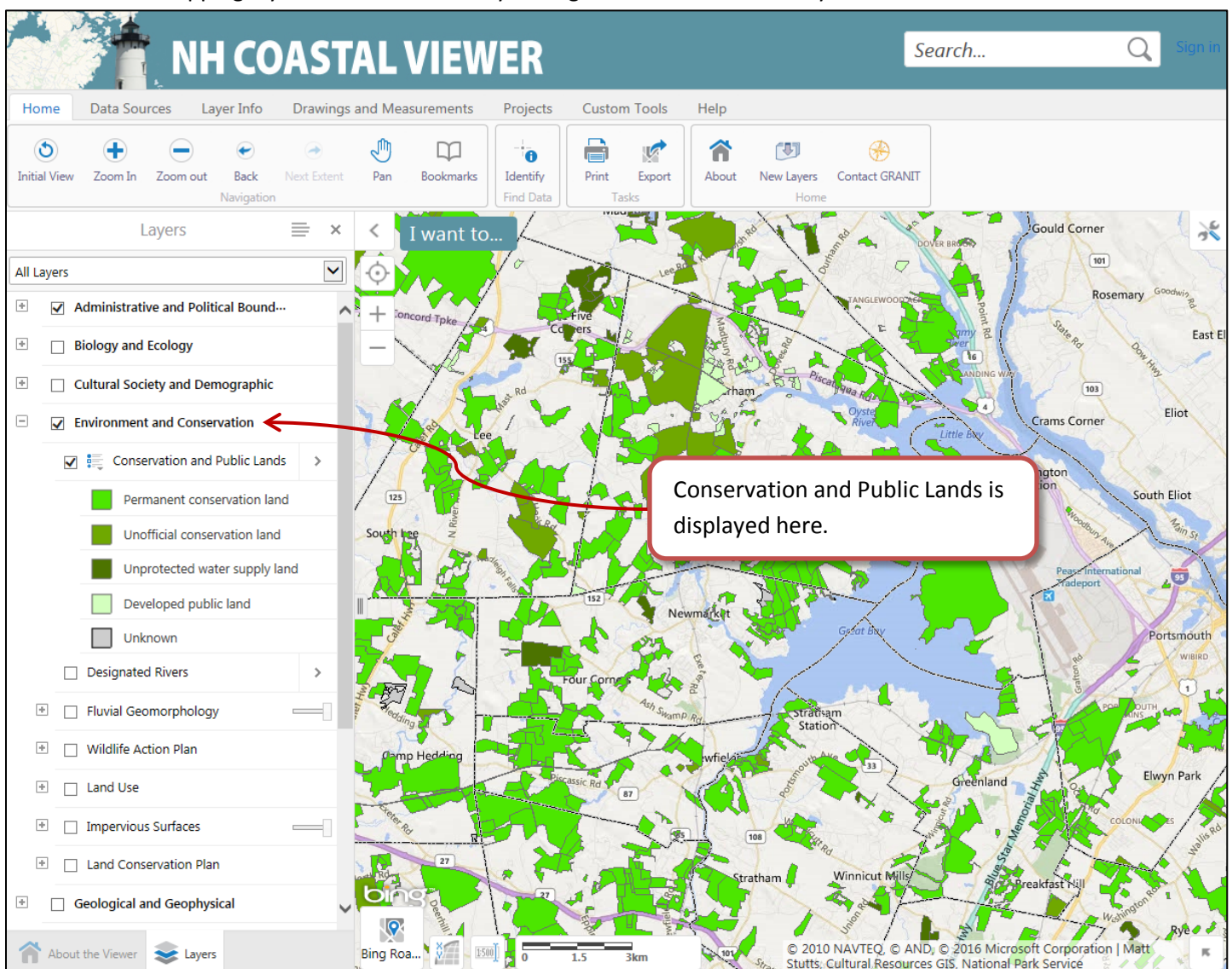


The NH Coastal Viewer Clipping Tool provides a means by which users can summarize vector data using selected polygon features. A typical workflow would be for a user to select a polygon feature (the source layer whose polygon(s) will be used as the clipping boundary), then choose a layer to clip (the target layer whose features within the selected source polygon will be summarized), then choose an attribute from the target layer to use as a summary field and generate a report in pdf or csv formats. Point, line and polygon layers will be summarized as follows:

- Points summarized as the number of features, listed by a user-selected attribute, within the summarizing polygon(s).
- Lines summarized as the total length of features, listed by a user-selected attribute, within the summarizing polygon(s).
- Polygons summarized as the area of features, listed by a user-selected attribute, within the summarizing polygon(s).

In the example below, a selected polygon from the Conservation and Public Lands layer is used to summarize the area of soils, by MUSYM, that occur within the selected polygon.

1. **Select a source (clipping) layer by which to summarize.** In this example, the Conservation and Public Lands layer is used as the clipping layer and made visible by ticking the check box in the Layer List.



2. **Select a polygon(s) from the source (or clipping) layer.** Here, the Identify tool is used to make a selection on the Conservation and Protected Lands layer. The user may also select the polygon from the source layer via the Query tool or the Global Search box.

**NH COASTAL VIEWER**

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Layers

All Layers

- ☒ Administrative and Political Bound...
- ☐ Biology and Ecology
- ☐ Cultural Society and Demographic
- ☒ Environment and Conservation
  - ☒ Conservation and Public Lands
    - Permanent conservation land
    - Unofficial conservation land
    - Unprotected water supply land
    - Developed public land
    - Unknown
  - ☐ Designated Rivers
  - ☐ Fluvial Geomorphology
  - ☐ Wildlife Action Plan
  - ☐ Land Use
  - ☐ Impervious Surfaces
  - ☐ Land Conservation Plan
  - ☐ Geological and Geophysical

I want to...

Use the Identify tool to make a selection on the clipping layer.

The Identify tool results will be listed in the table at the bottom of the viewer.

Identify Results (2)

City/Town	Conservation and Public Lands										
OBJECTID	FIPS	COUSUB	NAME	RPA	COUNTY	SHAPE	OBJECTID	FIPS	NAME	ACRES	COUNT
172	15110	51620	Newington	8	15		78	15110	Newington	7916.7	15

Displaying 1 - 1 (Total: 1) Page 1 of 1

3. **Start the Clipping Tool.** From the Identify Results panel (the table located at the bottom of the viewer), select the Clipping Tool, which is located in the Panel Actions Menu.

The screenshot displays the NH Coastal Viewer web application. The interface includes a top navigation bar with a search field and a sign-in link. Below this is a menu bar with options like Home, Data Sources, Layer Info, Drawings and Measurements, Projects, Custom Tools, and Help. A toolbar contains various map navigation and tool icons. On the left, a 'Layers' panel lists categories such as Administrative and Political Boundaries, Biology and Ecology, Cultural Society and Demographic, Environment and Conservation, Designated Rivers, Fluvial Geomorphology, Wildlife Action Plan, Land Use, Impervious Surfaces, Land Conservation Plan, and Geological and Geophysical. The main map area shows a coastal region with green-shaded areas representing conservation lands. A red callout box points to the 'Panel Actions Menu' icon (three horizontal lines) in the top right corner of the map area, with the text: 'Click the Panel Actions Menu icon to expose the Clipping Tool.' Another red callout box points to the 'Run Clipping Tool' button in the 'Identify Results (2)' panel, with the text: 'The Clipping Tool is located here.' The 'Identify Results (2)' panel is a table showing search results for 'Conservation and Public Lands' in Newington.

City/Town	Conservation and Public Lands					
OBJECTID	FIPS	COUSUB	NAME	RPA	COUNTY	SHA
172	15110	51620	Newington	8	15	



4. **Select Source layer from the available list.** When the Clipping Tool dialog opens, all layers with features returned from the Identify operation are listed. In this example, the Conservation and Public Lands layer is selected as the source (or clipping) layer.

**NH COASTAL VIEWER**

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Clipping Tool - Source Layers

Select a source layer.

City/Town  
Conservation and Public Lands

Next Use

I want to...

Source Layer (i.e. the layer that will be used to clip).

Click Next to continue

Identify Results (2)

Conservation and Public Lands	City/Town				
Name	Reported Size (ac)	Calculated Size (ac)	Date Added to Database	Date Recorded	Primary Project
Great Bay National Wildlife Refuge	-999	1057.006			US Dept. of

Displaying 1 - 1 (Total: 1) Page 1 of 1

5. **Select a target layer.** The next panel of the Clipping tool lists all available layers that can be clipped (i.e. target layers). Note that only layers that intersect the selected source feature are offered as target layers. In this example, the Soil Series layer is selected as the target layer. The area of these features will be summarized for the selected Conservation and Public Lands polygon.

**NH COASTAL VIEWER**

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Navigation Tasks Home

Clipping Tool - Target Layers

Source layer: **Conservation and Public Lands**  
Select one or more target layers to clip.

- Aquifer Transmissivity
- Artificial Paths
- Conservation Focus Areas - 2006 (NH)
- Conservation and Public Lands
- Dam Inventory
- Flood Hazard - Areas
- Flood Hazard - Lines
- Fourth Order and Greater
- HUC 12
- HUC 8
- Local Roads
- National Wetlands Inventory
- Parcels - polygons
- Soil Series**
- Stream Centerlines

Back Next

I want to...

In the second panel, select the layer to summarize.

Click Next to continue

Identify Results (2)

Conservation and Public Lands	City/Town				
Name	Reported Size (ac)	Calculated Size (ac)	Date Added to Database	Date Recorded	Primary Project
Great Bay National Wildlife Refuge	-999	1057.006			US Dept. of I

Displaying 1 - 1 (Total: 1) Page 1 of 1

6. **Select a summary field.** In the next panel, an attribute from the Soil Series layer is selected and used as the basis of the summary report. The results are summarized by area (square feet) because the Soil Series layer comprises polygons. Alternatively, for linear features, length (linear feet) would be used or for points, number of features would be used.

**NH COASTAL VIEWER**

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Navigation Tasks Home

Clipping Tool - Grouping Field

Target layer: **Soil Series**

Select a field to group your results, or select 'None' if you do not want to group by a field.

- None
- AREASYMBOL
- Area (acres)
- COUNTY
- Drainage Class
- Farmland Class
- HYDRCRATNG
- Hydrologic Group
- MUKEY
- NH Forest Soils Group
- Parent Material
- Representative Slope
- SHAPE.AREA
- SHAPE.LEN
- SHAPE.LENG
- SPATIALVER
- Soil Code**
- Soil Unit

Back Done

I want to...

Select the attribute that will be used to summarize the results. In this example, the report will list square feet per unique Soil Code.

Click Done to continue.

Identify Results (2)

Conservation and Public Lands		City/Town			
Name	Reported Size (ac)	Calculated Size (ac)	Date Added to Database	Date Recorded	Primary Proj
Great Bay National Wildlife Refuge	-999	1057.006			US Dept. of I

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7. **Choose a report format.** Click either the Generate pdf or Download csv to view the results in the preferred format.

The screenshot shows the NH Coastal Viewer interface. At the top, there's a search bar and a navigation menu with options like Home, Data Sources, Layer Info, Drawings and Measurements, Projects, Custom Tools, and Help. Below the menu is a toolbar with icons for Initial View, Zoom In, Zoom out, Back, Next Extent, Pan, Bookmarks, Identify, Print, Export, About, New Layers, and Contact GRANIT. The main map area shows a coastal region with green land and blue water. A red arrow points from the 'Export Options' section on the left to the 'Generate pdf' and 'Download CSV' links. A red box with the text 'Select pdf or csv.' is overlaid on the map. The bottom section displays 'Identify Results (2)' with a table of conservation and public lands.

**Clipping Tool - Completed**

Ready to export the clipping tool result.

Export Options:  
[Generate pdf](#)  
[Download CSV](#)

[Close](#)

**Select pdf or csv.**

**Identify Results (2)**

Conservation and Public Lands		City/Town			
Name	Reported Size (ac)	Calculated Size (ac)	Date Added to Database	Date Recorded	Primary Project
Great Bay National Wildlife Refuge	-999	1057.006			US Dept. of

Displaying 1 - 1 (Total: 1) Page 1 of 1

8. **Choose how to view the report.** The final step is to choose how to view the output. Click the Download link followed by the Open or Save to view or save the results.

The screenshot displays the NH Coastal Viewer web application. The interface includes a top navigation bar with tabs like Home, Data Sources, Layer Info, Drawings and Measurements, Projects, Custom Tools, and Help. A search bar is located in the top right. Below the navigation bar is a toolbar with icons for Initial View, Zoom In, Zoom Out, Back, Forward, Pan, Bookmarks, Identify, Print, Export, About, New Layers, and Contact GRANIT. The main map area shows a coastal region with various land parcels and water bodies. A red arrow points from a text box labeled "Download link." to a "Download" link in a "Save clipping results" dialog box. Another red arrow points from a text box labeled "Download choice (varies by browser)." to the "Open" button in a file download dialog at the bottom of the screen.

**Download link.**

**Download choice (varies by browser).**

**Save clipping results**

Click the download link to save the pdf

[Download](#)

**Do you want to open or save ClippingTool\_20161021\_153309.pdf (17.5 KB) from nhcoastalviewer-dev.sr.unh.edu?**

Open Save Cancel



9. **Example pdf output.** Soil series are summarized by MUSYM. The area of each unique MUSYM within the selected Conservation and Public Lands layer polygon is summed.

ClippingTool\_20161018\_100738.pdf - Adobe Acrobat Pro

File Edit View Window Help

Create

1 / 1 98.4%

Tools Comment Share

### NH Coastal Viewer - Clipping Report

Report Generated: 10/18/2016 10:07:39 AM

Soil Series - MUSYM	Area (Sq. feet)
12B	1,344,291
134	256,892
140B	3,139,628
140C	2,341,959
26B	152,396
298	645,325
299	6,144,733
313A	397,878
314A	1,214,084
32A	2,566,288
32B	11,050,181
33A	2,339,325
38A	1,177,788
38B	1,661,504
397	70,396
460B	1,510,564
460C	1,455,002
510B	753,080
510C	270,844
538A	3,664,959
597	628,597
997	85,379
W	3,170,127
<b>Total:</b>	<b>46,041,218</b>