

Aquaculture Web Map User Guide

Maine Department of Marine Resources

Purpose Statement


The aim of this guide is to provide details on how to use the Maine DMR Aquaculture Map. If you have questions or would like additional instructional sections, please email DMRAquaculture@maine.gov.

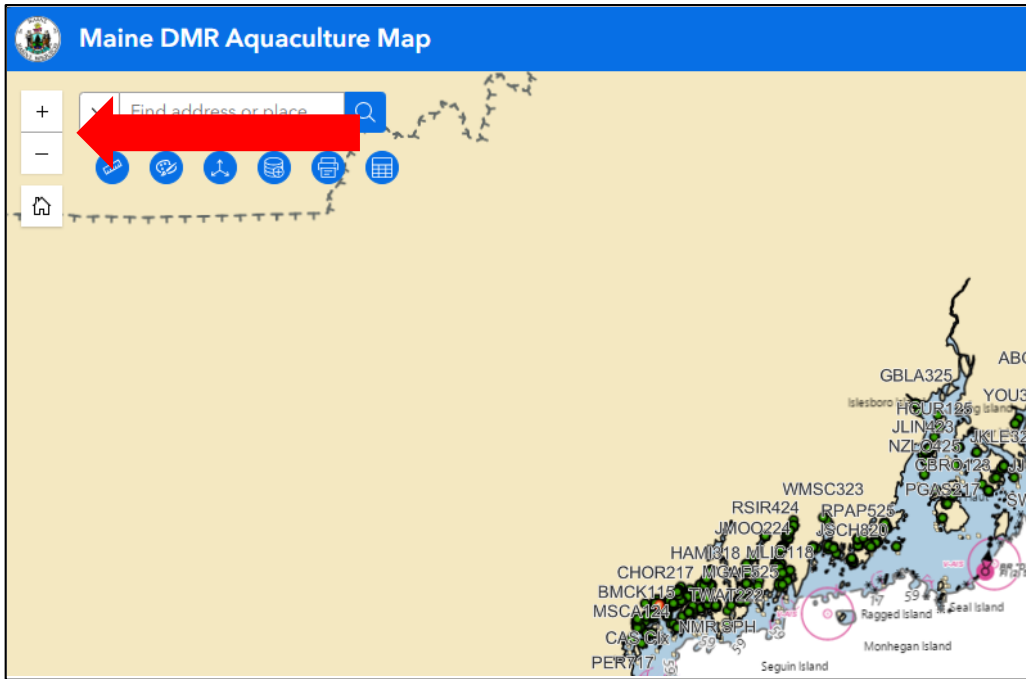
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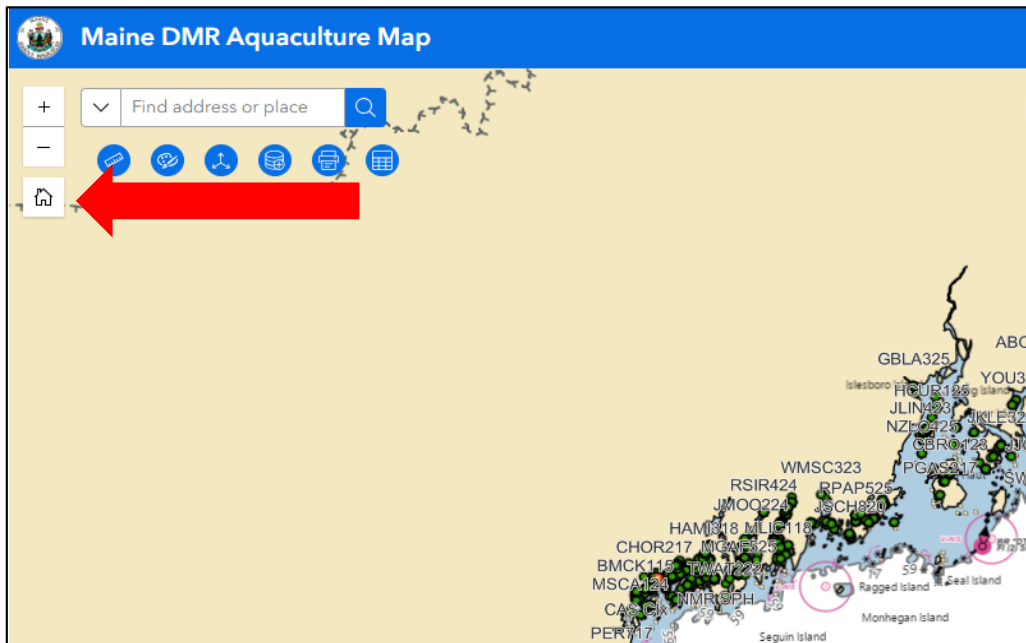
1. General Operation

I. Click on the map and drag your mouse to move around the map.


II. Use this tool  to zoom in and out on the map, or just double click to zoom in.



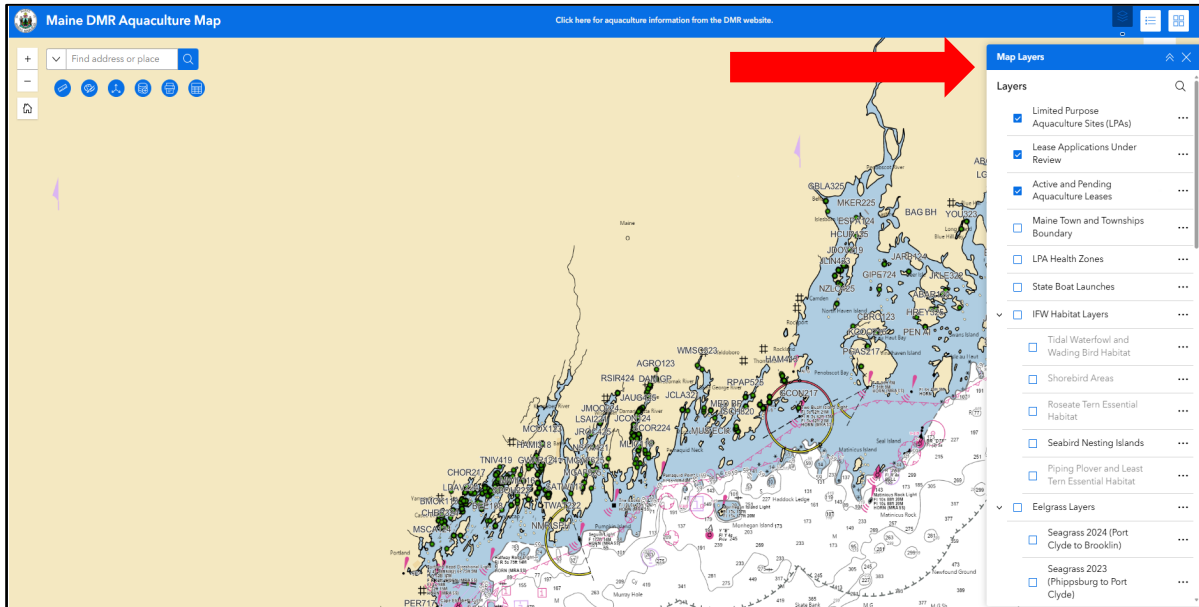
- I. Click this icon  to reset the map to the original view.



2. Using the Layer List


- I. When you click on this icon  located in the upper right hand corner of the map, a box titled “**Map Layers**” will appear. This box contains a list of layers (information) that can be added to, or removed from, the map.

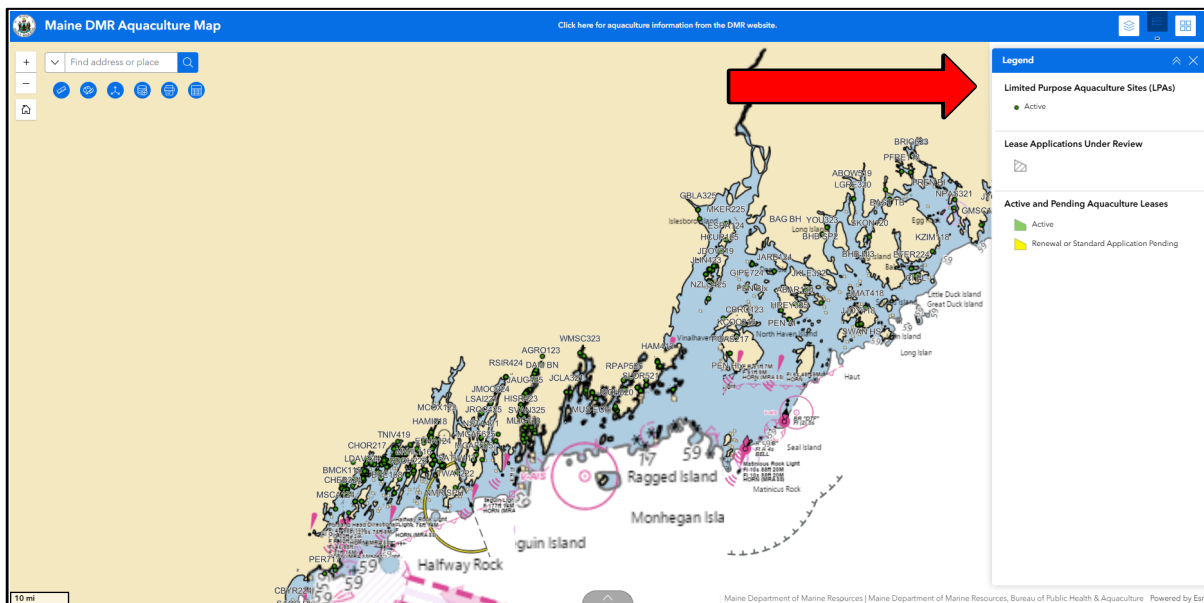
- II. Check the boxes associated with layers you wish to add to your map. Uncheck the boxes for layers you wish to remove from the map.




- III. Click **...** for more information on each layer, which includes an **Attribute Table** and the ability to **Zoom to**.

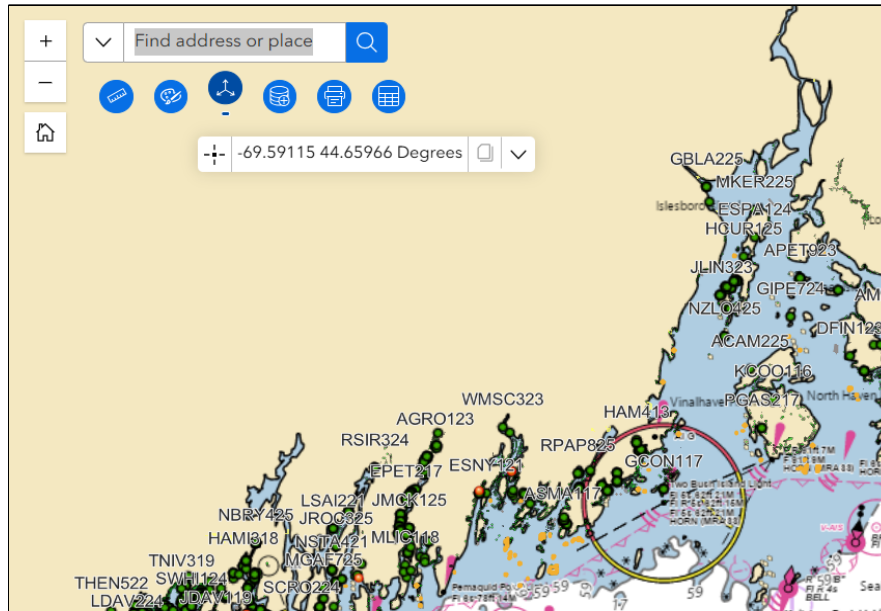
3. Using the Legend



- I. When you click this icon  located in the upper right hand corner of the map, a box titled **“Legend”** will appear. This box displays the symbols associated with each point and polygon that appear on the map.





4. Using the Coordinate Tool

- I. When you click this icon  located under the search bar within the map, a box titled “Coordinates” will appear. This box allows you to utilize your cursor tool to explore coordinates on the map.



- I. Click the  button to collect coordinates from a location on the map.
- II. Click to  button to copy the selected coordinates to your clipboard.

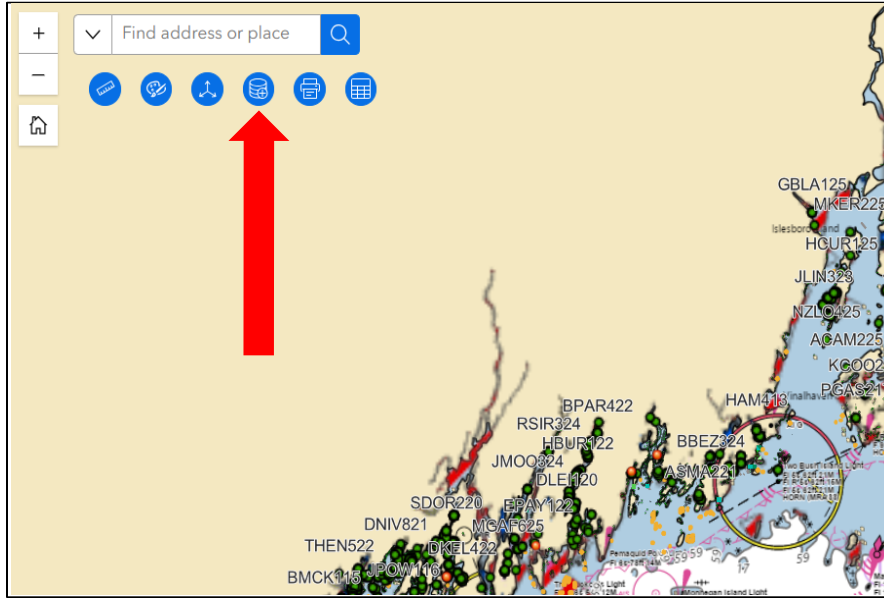
5. Using the Search Tool

- I. The search bar  Find address or place  allows you to enter a place-name or keyword and search for it. Aquaculture leases and licenses can be searched for using this tool.
- II. By clicking on the object that was searched for, a pop-up appears at the location of the place-name or the feature that has been searched for. This pop-up displays any available attribute information for the location or lease/license you have searched for.

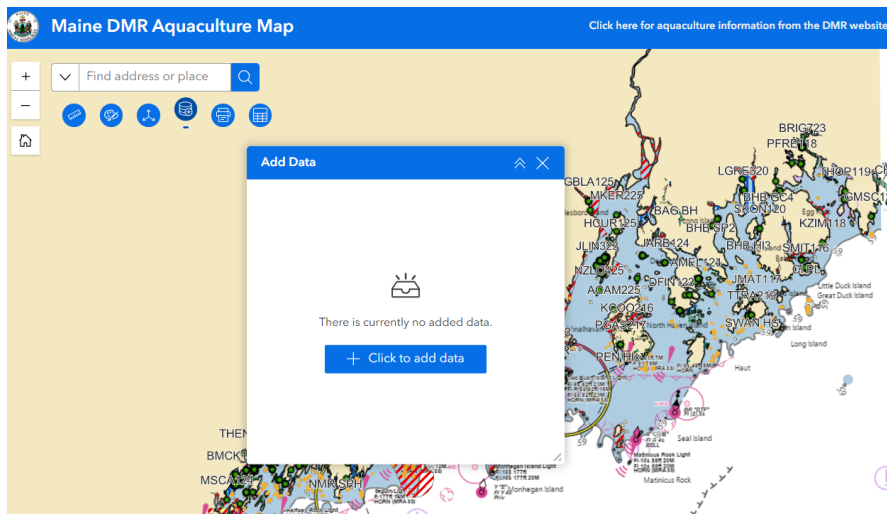
6. Using the Add Data Tool




- I. The add data tool allows you to add layers to the map from ArcGIS Online, a URL, or from file.




- II. When you click on the Add Data tool, the following box will appear. Select "Click to add data".

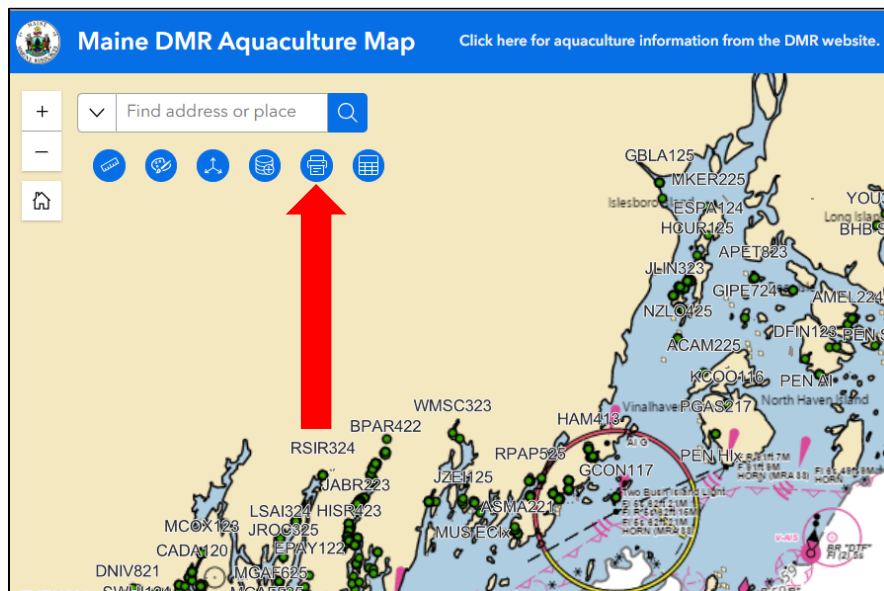


- III. Under **Search** tab, type the description of the data you want. Click on a specific item to add it to the map. Do this for as many different layers you want. Once you have selected all the layers you wish to add, select "Done" at the bottom of the list. The added layer will show in the **Map Layers** as well. Click the trash can  or select **REMOVE** to remove the layer from the map and Layer List. You can also click **DETAILS** to get information for the layer.
- IV. To add layers by URLs, click the **URL** tab next to the **Search** tab. Choose a type and enter the URL.
- V. To add layers from file, click on the **File** tab and browse for the files or drag and drop them onto the tool.

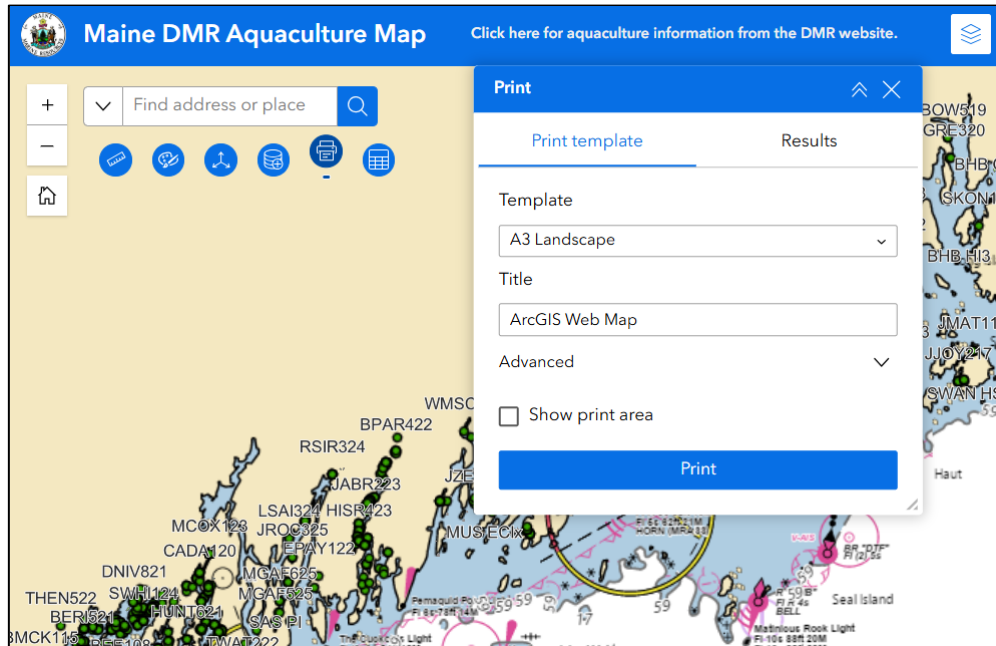
7. Using the Print Tool



- I. The print tool  allows you to export the map in a variety of formats (including PDF) and/or print the map.




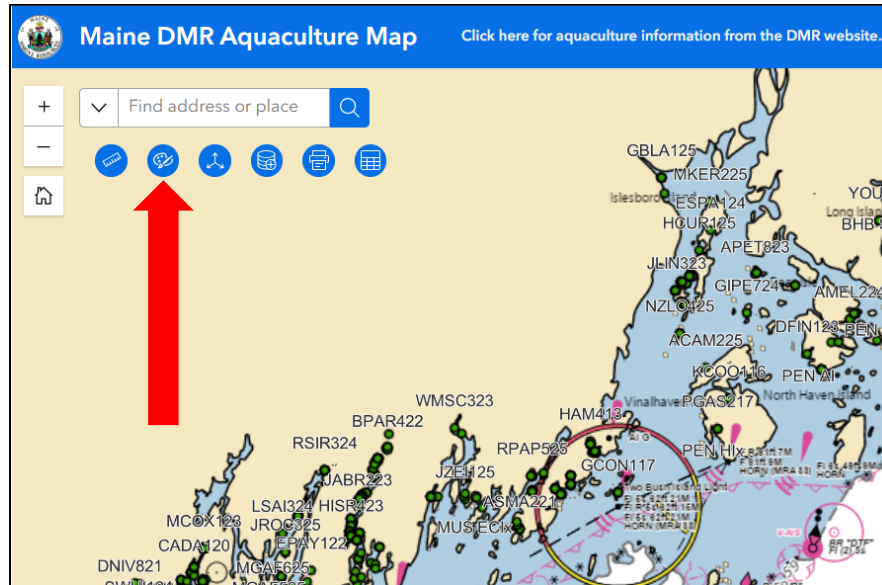
- II. When you click on the print tool, the following box will appear.



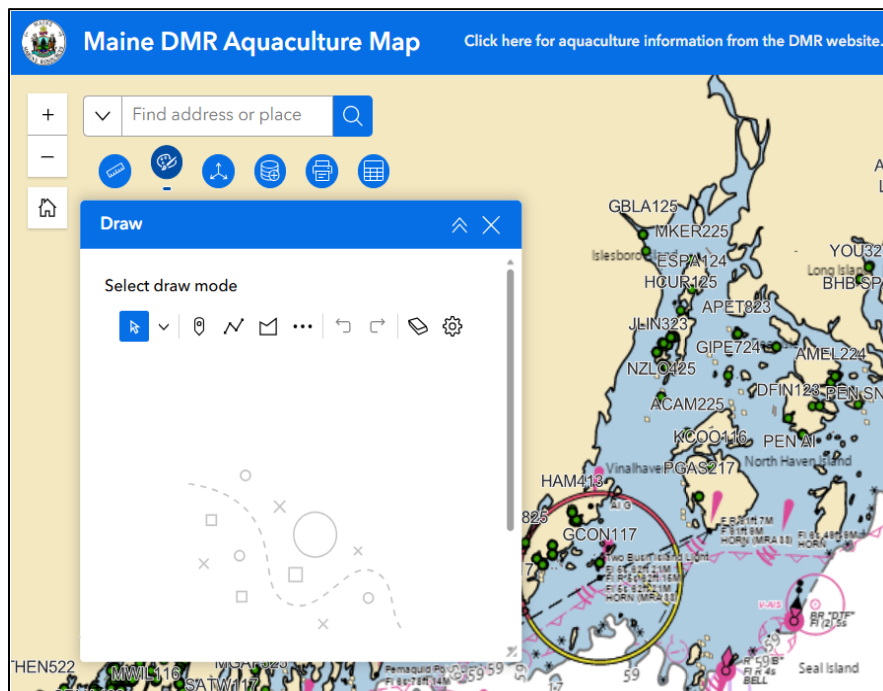
- III. Select the **Layout** and **Format** that you would like for the exported map. If you pick a layout other than **MAP_ONLY** you will be able to create a title for your map. **NOTE:** The **MAP_ONLY** format prints only the map and will not print the layers you have added to the map.
- IV. Click **Advanced** to open a menu with advanced print options.
- V. After all options have been set with the applicable values, click **Print** to submit all information to the print service. A progress bar displays next to the executing task.

8. Using the Draw Tool

- I. The draw tool  allows you to draw points, lines, or polygons on the map.




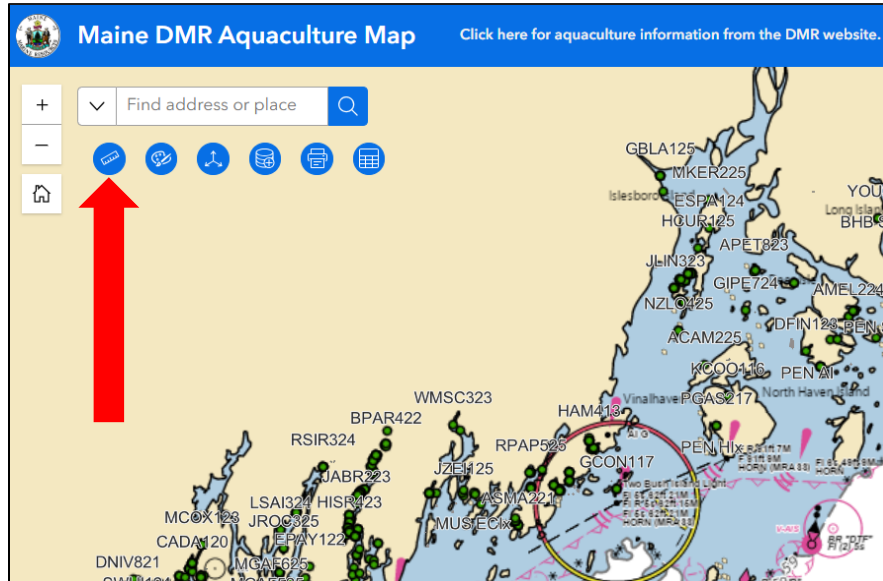
II. When you click on the draw tool, the following box will appear. To begin, click on the draw mode you would like to use.



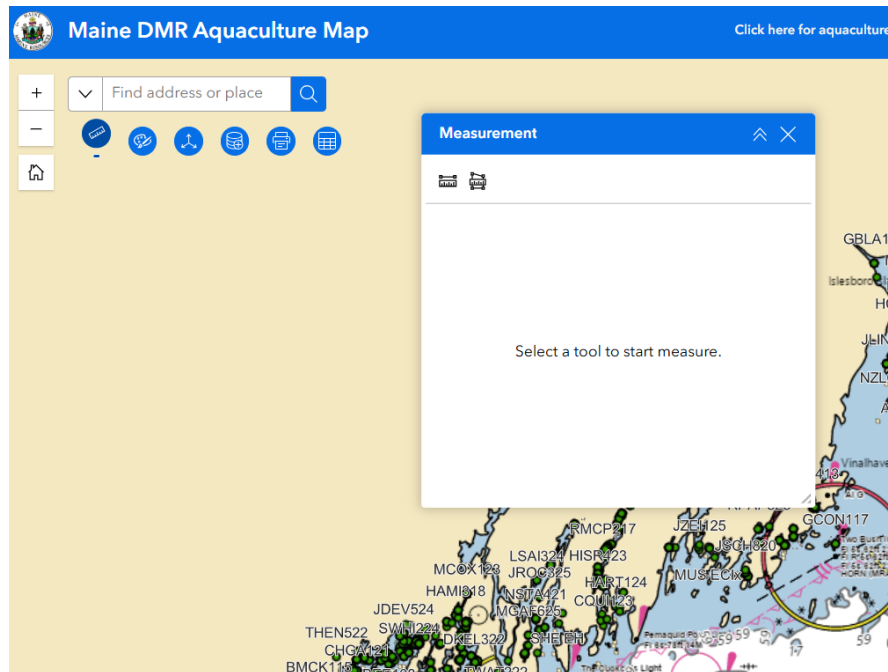
- III. Drawing features include being able to mark features (point), connect features (line), or encompass features (polygon). Select **...** to create rectangular or circular polygons.
- IV. Click **Undo** or **Redo** to undo or redo the drawing features. Click **Clear all** to remove all of them.


9. Using the Measurement Tool

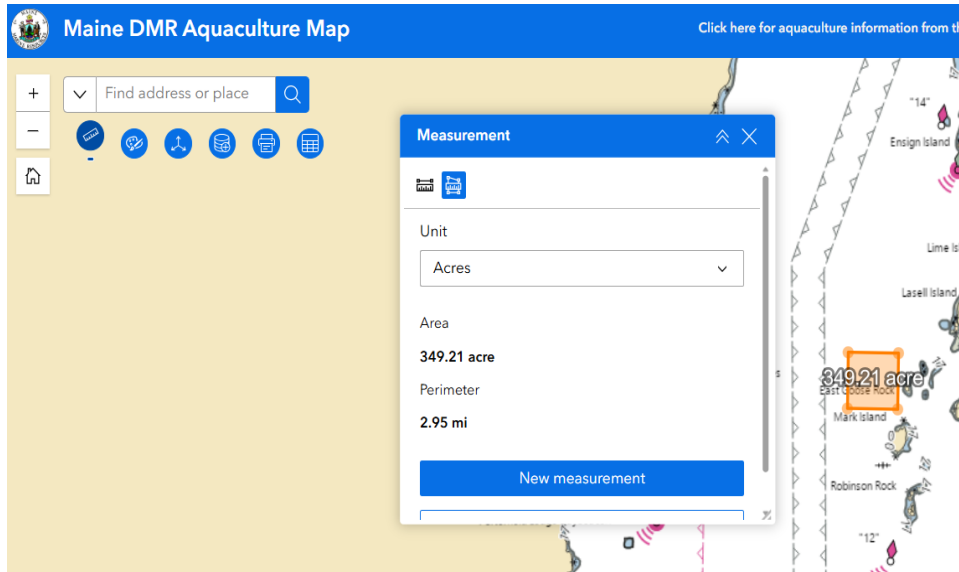
- I. The measurement tool  allows the user to measure distance & area on the map.




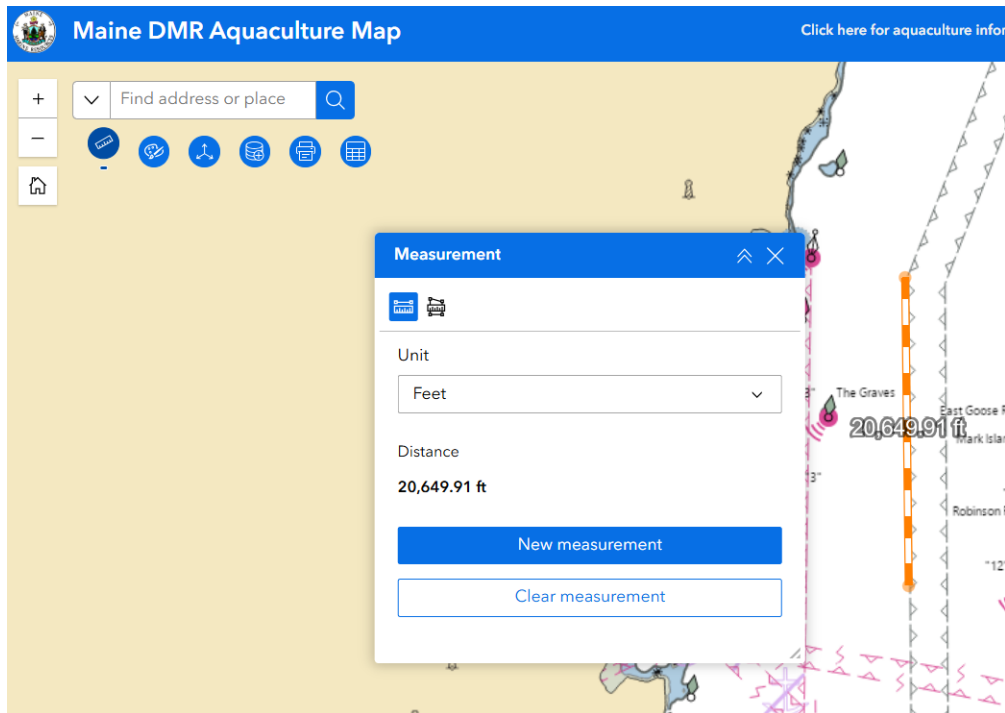
- II. When you click on the measurement tool, the following box will appear. To begin, click on the measurement tool you would like to use.




- a. The area measurement tool  allows you to measure the area of a polygon. To do this, select the units you wish to measure in the drop-down menu. Then, draw a polygon on the map by clicking three or more points. Double-click to finish drawing the polygon and the measurement will appear.

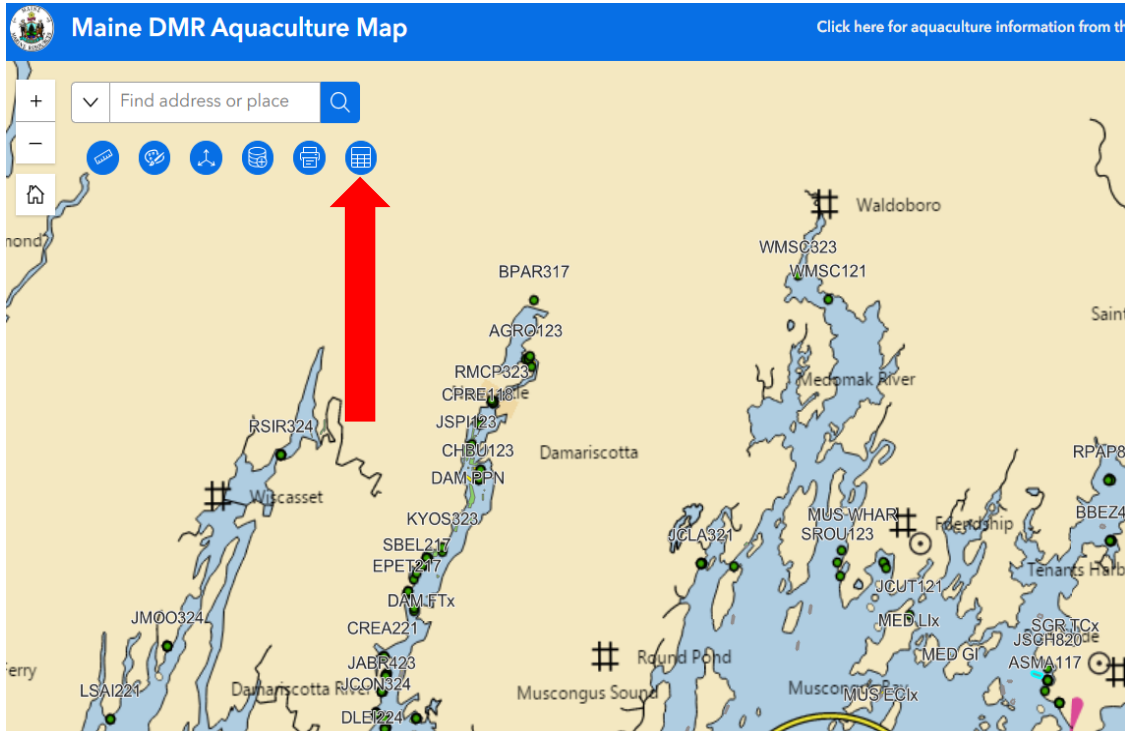


- b. The distance measurement tool  allows you to measure a line. To do this, select the units you wish to measure in the drop-down menu. Then, draw a line on the map by clicking two or more points. Double-click to finish drawing the polyline and the measurement will appear.



10. Using the Table Tool

- I. The Table tool  allows the user to view records associated with the following layers: "Limited Purpose Aquaculture Sites (LPAs)", "Lease Applications Under Review", and "Active and Pending Aquaculture Leases"



- II. When you click on the table tool, the following box will appear. To begin, select which aquaculture layers attribute table you would like to look at - Limited Purpose Aquaculture Sites (LPAs), Lease Applications Under Review, Active and Pending Aquaculture Leases, and Denied Aquaculture Leases.

Maine DMR Aquaculture Map

Click here for aquaculture information from the DMR website.

Find address or place

Table

Limited Purpose Aquaculture Sites (LPAs)

Search

SITE ID	Last Name	First Name	Latitude	Longitude	Species
ABAR120	Barrows	Abigail	44.18801	-68.66118	American or eastern oysters (<i>Crassostrea virginica</i>), Bay scallop (<i>Aequipecten irradians</i>)
ABAR221	Barrows	Abigail	44.18816	-68.64848	American or eastern oyster (<i>Crassostrea virginica</i>), Sea scallop (<i>Placopecten magellanicus</i>)
ABAR324	Barrows	Abigail	44.19102	-68.57378	American oyster (<i>Crassostrea virginica</i>), Sea scallops (<i>Placopecten magellanicus</i>)
ABON225	Bond	Alexus	43.79043	-70.11945	American/eastern oyster (<i>Crassostrea virginica</i>)
ABOW219	Noll	Anne	44.46752	-68.46591	American or eastern oyster (<i>Crassostrea virginica</i>); Sea scallops (<i>Placopecten magellanicus</i>)
ABOW519	Noll	Anne	44.46724	-68.46583	American or eastern oyster (<i>Crassostrea virginica</i>); Sea scallops (<i>Placopecten magellanicus</i>)
ABUC124	Buchner	Andrew	43.85304	-69.71326	American oyster (<i>Crassostrea virginica</i>)
ABUC225	Buchner	Andrew	43.85305	-69.71337	American/eastern oyster (<i>Crassostrea virginica</i>); hard clam/quahog (<i>Mercenaria mercenaria</i>)
ABUC325	Buchner	Andrew	43.85326	-69.71549	American/eastern oyster (<i>Crassostrea virginica</i>); hard clam/quahog (<i>Mercenaria mercenaria</i>)
ABUC425	Buchner	Andrew	43.85314	-69.71283	American/eastern oyster (<i>Crassostrea virginica</i>); hard clam/quahog (<i>Mercenaria mercenaria</i>)

Total: 580 | Selection: 0

- III. To filter specific results, use the Search box to organize by any of the identified attributes (SITE ID, Town, etc) . For example, to identify all LPAs in a specific town, type the town name in the Search field and hit Enter.

Maine DMR Aquaculture Map

Click here for aquaculture information from the DMR website.

Find address or place

Table

Limited Purpose Aquaculture Sites (LPAs)

Search Brunswick

SITE ID	Last Name	First Name	Latitude	Longitude	Species
BMRC215	Brunswick Mari...		43.82835	-70.01570	oyster eastern / american (<i>Crassostrea virginica</i>)
BMRC323	Brunswick Mari...		43.86253	-70.00204	Hard Clam/Quahog (<i>Mercenaria mercenaria</i>)
BMRC424	Brunswick Mari...		43.85856	-69.91316	Hard clams/quahog (<i>Mercenaria mercenaria</i>), soft-shelled clams (<i>Mya arenaria</i>)
BMRC525	Brunswick Mari...		43.85507	-69.95983	Hard clam/quahog (<i>Mercenaria mercenaria</i>)
DEDE524	Devereaux	Derek	43.84937	-70.00876	American oyster (<i>Crassostrea virginica</i>); Hard clam/quahog (<i>Mercenaria mercenaria</i>)
DEDE624	Devereaux	Derek	43.84932	-70.00872	American oyster (<i>Crassostrea virginica</i>); Hard clam/quahog (<i>Mercenaria mercenaria</i>)
DNIV521	Niven	Doug	43.84737	-70.01258	hard clams (<i>M. mercenaria</i>), American/eastern oyster (<i>C. virginica</i>), sea scallops (<i>Placopecten magellanicus</i>)
DNIV621	Niven	Doug	43.84753	-70.01259	hard clams (<i>M. mercenaria</i>), American/eastern oyster (<i>C. virginica</i>), sea scallops (<i>Placopecten magellanicus</i>)
DNIV721	Niven	Doug	43.84772	-70.01293	hard clams (<i>M. mercenaria</i>), American/eastern oyster (<i>C. virginica</i>), sea scallops (<i>Placopecten magellanicus</i>)
DNIV821	Niven	Doug	43.84761	-70.01278	hard clams (<i>M. mercenaria</i>), American/eastern oyster (<i>C. virginica</i>), sea scallops (<i>Placopecten magellanicus</i>)

Total: 37 | Selection: 0

11. Exporting to a File

If there is specific data that you need from the tables, select the entries that pertain to your inquiry. As seen the table below, multiple entries may be selected, either by using the search tool or scrolling through the table and manually making selections.


Table

Limited Purpose Aquaculture Sites (LPAs)

Q Search

SITE ID	Last Name	First Name	Latitude	Longitude	Species
CADA120	Adams	Cheyenne	43.87575	-69.88986	American or eastern oysters (<i>Crassostrea virginica</i>) and sugar kelp (<i>Saccharina</i> sp.)
CART316	Cartwright	Gene	44.27114	-68.94000	oyster eastern / american (<i>Crassostrea virginica</i>)
CART416	Cartwright	Gene	44.27114	-68.94050	oyster eastern / american (<i>Crassostrea virginica</i>)
CART521	Cartwright	Gene	44.26944	-68.94722	american oyster (<i>C. virginica</i>)
CART621	Cartwright	Gene	44.27139	-68.94028	american oyster (<i>C. virginica</i>)
CBAR422	Barner	Cameron	43.80643	-70.05690	American oysters (<i>C. virginica</i>)
CBAR522	Barner	Cameron	43.80630	-70.05673	American oysters (<i>C. virginica</i>)
CBAR623	Barner	Cameron	43.80191	-70.03498	American oysters (<i>Crassostrea virginica</i>)
CBLA120	Blackburn	Carolyn	43.74790	-70.17337	American or eastern oyster (<i>Crassostrea virginica</i>)
CBLA220	Blackburn	Carolyn	43.74725	-70.17388	American or eastern oyster (<i>Crassostrea virginica</i>)

Total: 580 | Selection: 13

Once the selections have been made, click on  and select **Export**

Table

Limited Purpose Aquaculture Sites (LPAs)

Q Search

SITE ID	Last Name	First Name	Latitude	Longitude	Species
CADA120	Adams	Cheyenne	43.87575	-69.88986	American or eastern oysters (<i>Crassostrea virginica</i>) and sugar kelp (<i>Saccharina</i> sp.)
CART316	Cartwright	Gene	44.27114	-68.94000	oyster eastern / american (<i>Crassostrea virginica</i>)
CART416	Cartwright	Gene	44.27114	-68.94050	oyster eastern / american (<i>Crassostrea virginica</i>)
CART521	Cartwright	Gene	44.26944	-68.94722	american oyster (<i>C. virginica</i>)
CART621	Cartwright	Gene	44.27139	-68.94028	american oyster (<i>C. virginica</i>)
CBAR422	Barner	Cameron	43.80643	-70.05690	American oysters (<i>C. virginica</i>)
CBAR522	Barner	Cameron	43.80630	-70.05673	American oysters (<i>C. virginica</i>)
CBAR623	Barner	Cameron	43.80191	-70.03498	American oysters (<i>Crassostrea virginica</i>)
CBLA120	Blackburn	Carolyn	43.74790	-70.17337	American or eastern oyster (<i>Crassostrea virginica</i>)
CBLA220	Blackburn	Carolyn	43.74725	-70.17388	American or eastern oyster (<i>Crassostrea virginica</i>)

Total: 580 | Selection: 13

- Selected (13)
- Calculate statistics
- Zoom to
- Pan to
- Show on map
- Show pop-up
- Add marker
- View in table
- Export
- All data (580)
- Set filter
- Calculate statistics
- Zoom to
- Pan to
- Export

Once **Export** has been selected, another box pops out, allowing the user to select the file type desired for export.

The screenshot displays the 'Maine DMR Aquaculture Map' interface. At the top, there is a search bar with the text 'Find address or place'. Below the search bar is a 'Table' window titled 'Limited Purpose Aquaculture Sites (LPAs)'. The table contains the following data:

SITE ID	Last Name	First Name	Latitude	Longitude	Species
CADA120	Adams	Cheyenne	43.87575	-69.88986	American or eastern oysters (<i>Crassostrea virginica</i>) and sugar kelp (<i>Saccharina</i>)
CART316	Cartwright	Gene	44.27114	-68.94000	oyster eastern / american (<i>Crassostrea virginica</i>)
CART416	Cartwright	Gene	44.27114	-68.94050	oyster eastern / american (<i>Crassostrea virginica</i>)
CART521	Cartwright	Gene	44.26944	-68.94722	american oyster (<i>C. virginica</i>)
CART621	Cartwright	Gene	44.27139	-68.94028	american oyster (<i>C. virginica</i>)
CBAR422	Barner	Cameron	43.80643	-70.05690	American oysters (<i>C. virginica</i>)
CBAR522	Barner	Cameron	43.80630	-70.05673	American oysters (<i>C. virginica</i>)
CBAR623	Barner	Cameron	43.80191	-70.03498	American oysters (<i>Crassostrea virginica</i>)
CBLA120	Blackburn	Carolyn	43.74790	-70.17337	American or eastern oyster (<i>Crassostrea virginica</i>)
CBLA220	Blackburn	Carolyn	43.74725	-70.17388	American or eastern oyster (<i>Crassostrea virginica</i>)

Below the table, there is a status bar that reads 'Total: 580 | Selection: 13'. To the right of the table, an 'Export' menu is open, showing options for 'Selected (13)' and 'All data (580)'. The 'Export' menu includes the following options:

- Calculate statistics
- Zoom to
- Pan to
- Show on map
- Show pop-up
- Add marker
- View in table
- Export
- Export to JSON
- Export to CSV
- Export to GeoJSON
- Export to Item
- Export to Shapefile
- Export to FGDB
- Export to KML