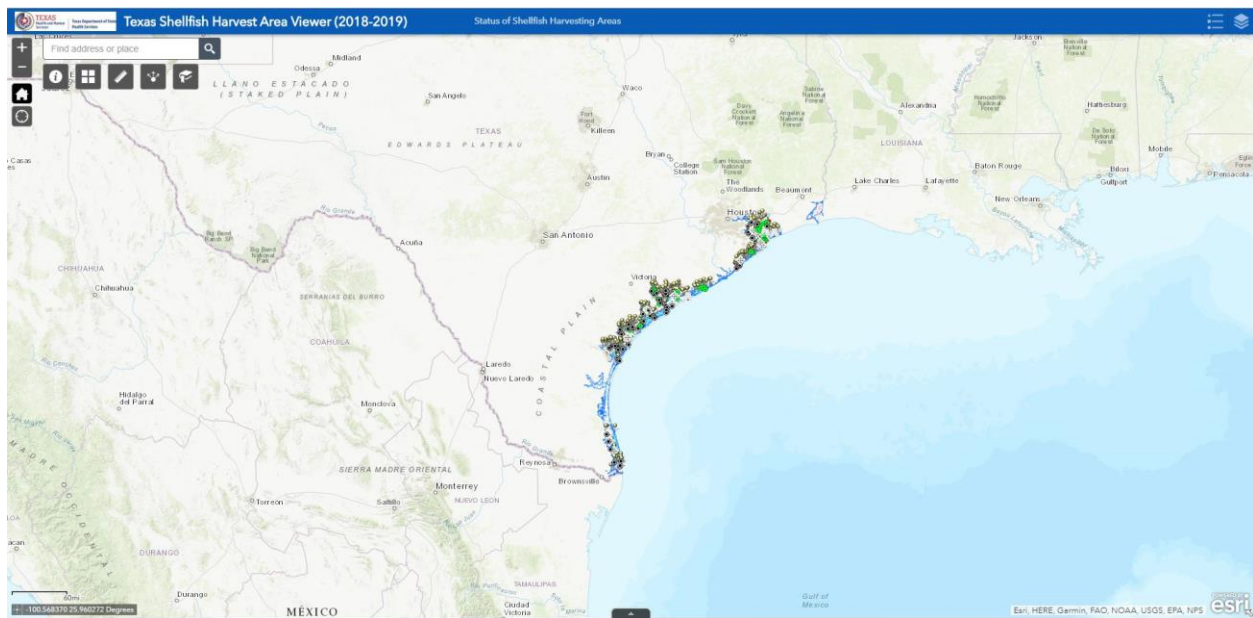


# Texas Shellfish Harvest Area Viewer

## User Guide



## Texas Department of State Health Services



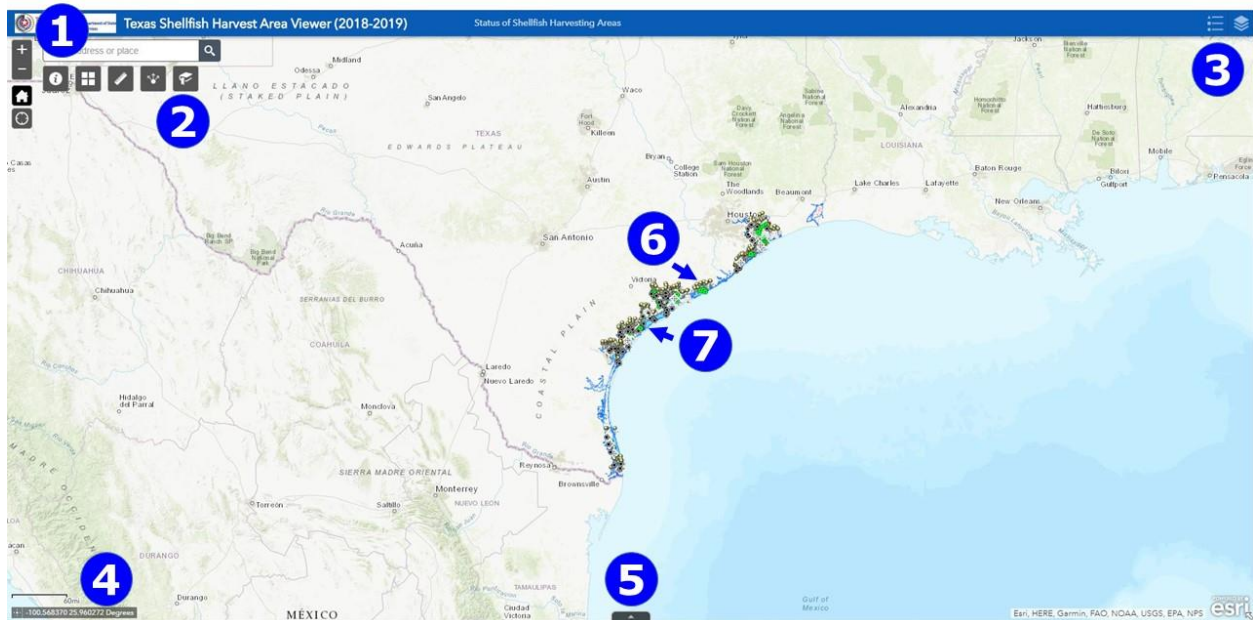
**Consumer Protection Division**  
**Policy, Standards, & Quality Assurance Section**  
**EMS/GIS–Seafood and Aquatic Life Units**

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# Application Overview

The screenshot below provides an overview of the functions and widgets available in this viewer. The user guide is divided into seven sections.





- 1. Zoom and Search Tools**
- 2. Map Widgets**
- 3. Legend and Layers**
- 4. Coordinates and Scale Bar**
- 5. Attribute Table**
- 6. Shellfish Marker Feature Pop-ups**
- 7. Shellfish Harvest Area Feature Pop-ups**

## Zoom and Search Tools


### Zoom In and Out



- Click the plus button  to zoom in at fixed increments and then click on the map and drag to move to the shellfish harvest area of interest.
- Click the minus button  to zoom out at fixed increments.

### Home



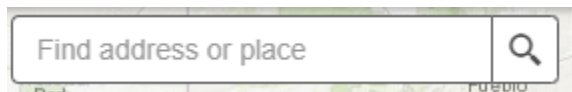
- Click the home button  to return to the default extent of the web map.

### My Location



- Click the location button  to show your current location.

### Search




- Type an address (8407 Wall St. Austin, Texas) or place name into the search bar. As you type similar matches will be presented. If the match presented is your desired water body simply click on it and the map will zoom to that location.
- You may also continue typing and then press Enter or click on the magnifying glass to zoom to that location.

# Map Widgets




## About

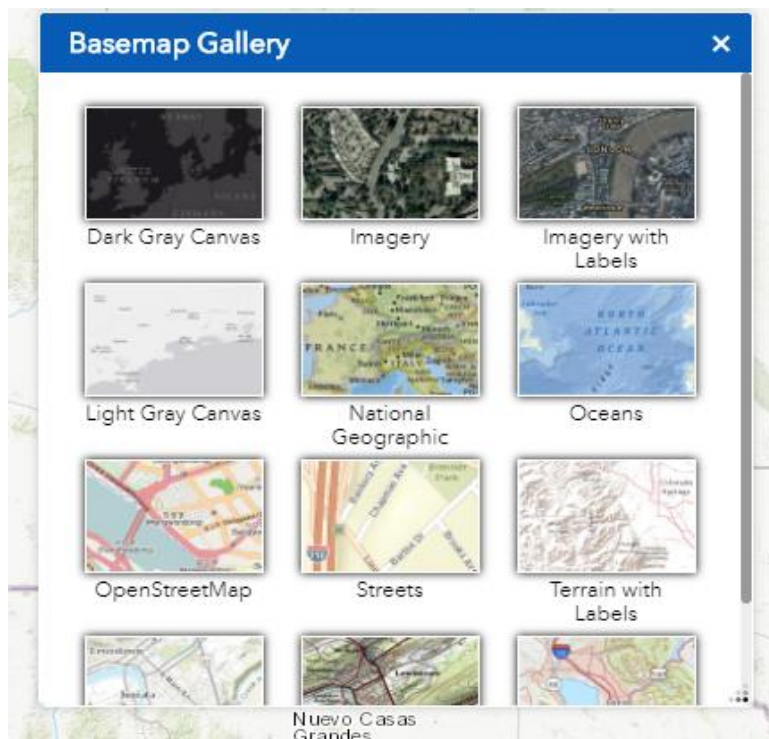


- Click the about button  to learn about the *Texas Shellfish Harvest Area Viewer*.

## Basemap Gallery





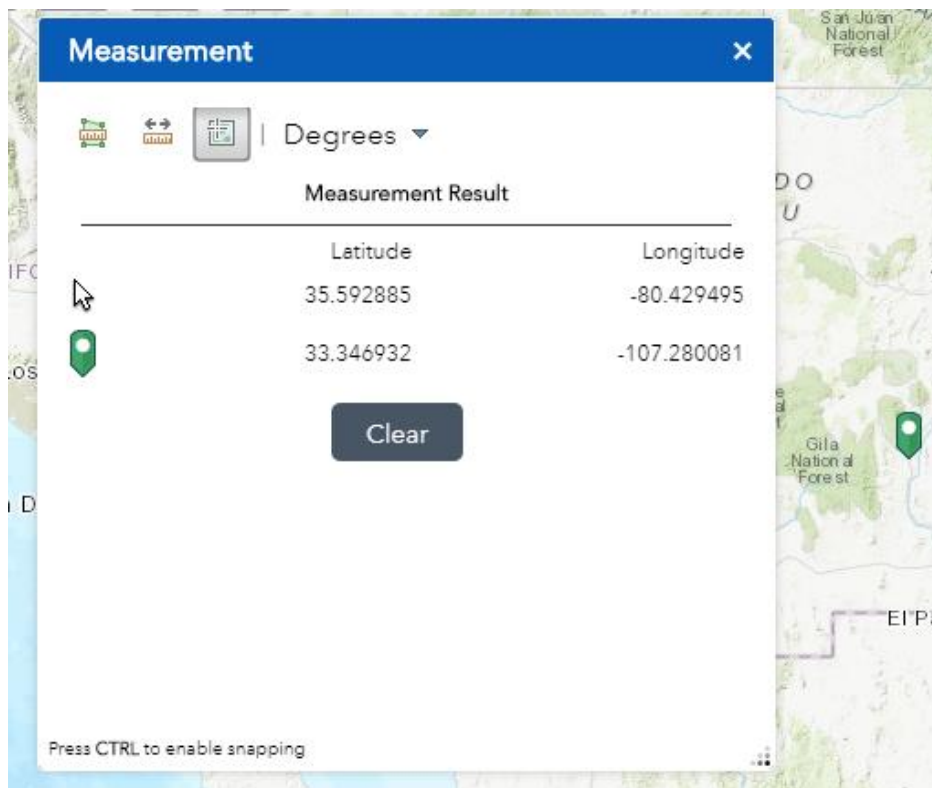
- The Basemap Gallery widget presents a gallery of basemaps and allows you to select one from the gallery as the basemap for the *Texas Shellfish Harvest Area Viewer*.
- Click the basemap button  to display the basemap gallery pop-up. Then click a basemap thumbnail to set the active basemap for the app.
- Click the X in the upper right corner of the Basemap Gallery window to close it.
- The topographic basemap is the default basemap.




## Measurement

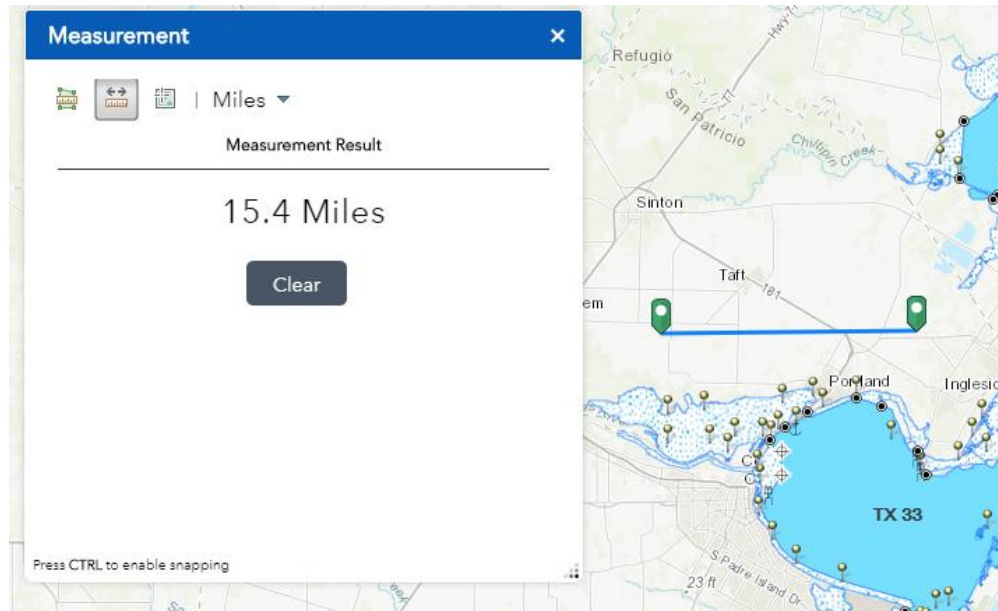



- The Measurement widget allows you to measure the area of a polygon (acres) or length of a line (miles) or find coordinates of a point.
- Click the measurement button  to open the widget.
  - Click the point measurement button  and then click a point on the map.
  - The Measurement widget displays the coordinates for the point in decimal degrees. To change the coordinate display format to degrees/minutes/seconds, change the selection in the **Degrees** drop-down menu to **DMS**.

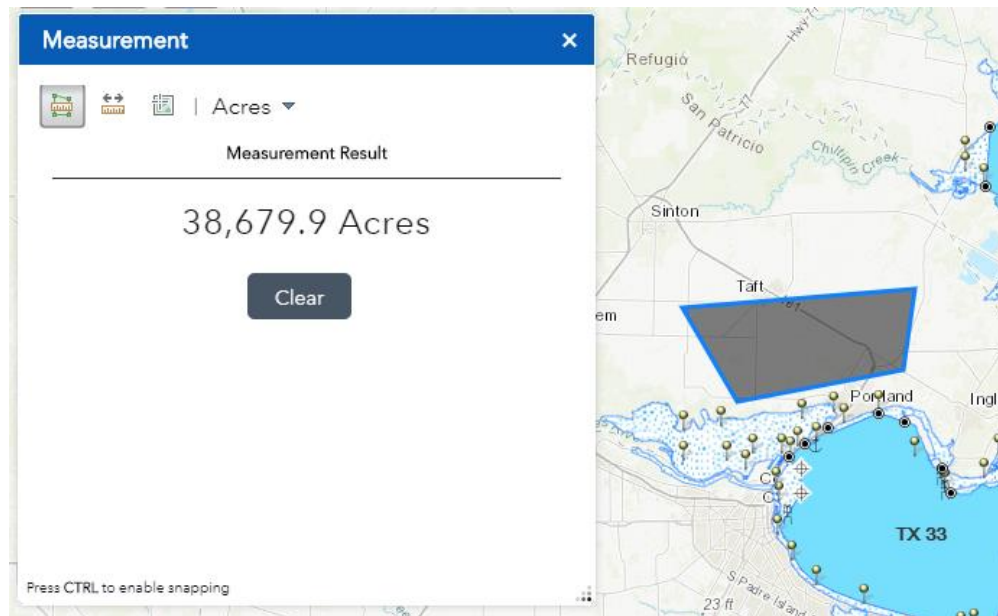


- Click the polyline measurement button  then draw a polyline on the map by clicking two or more points.
- Double-click to finish drawing the polyline.

- The Measurement widget displays the total length of the polyline using the defined **Default Length Unit**. To change the length unit, select the applicable unit of measure from the **Miles** drop-down menu.




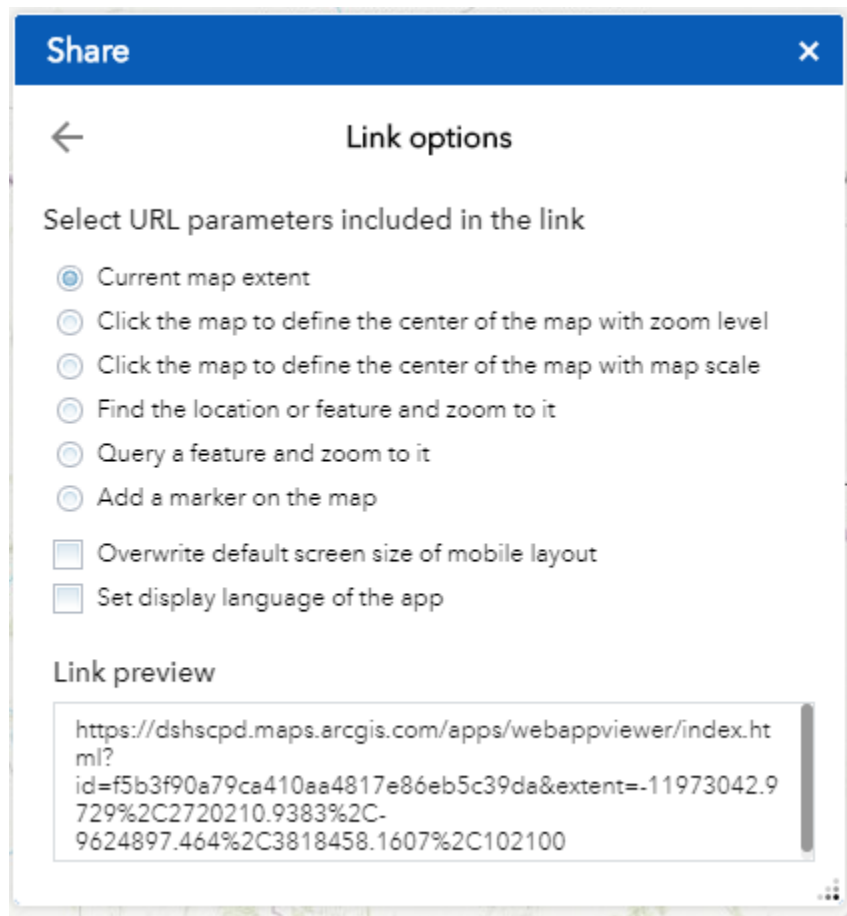
- Click the polygon measurement button  then draw a polygon on the map by clicking three or more points.
- Double-click to finish drawing the polygon.
- The Measurement widget displays the total area of the polygon using the defined **Default Area Unit**. To change the area unit, select the applicable unit of measure from the **Acres** drop-down menu.



## Share



- The Share widget allows you to share an app by posting it to your social media account, sending an email with a link, or embedding it in a website or blog. It also provides a straightforward way to define URL parameters for the app.
- Click the share button  to open the widget.
  - Click on the provided buttons for email or social media send or post the app link, or you can copy the short link and paste it into your email, instant message, and so on.
  - Optionally click **Link Options** to easily define URL parameters included in the link.




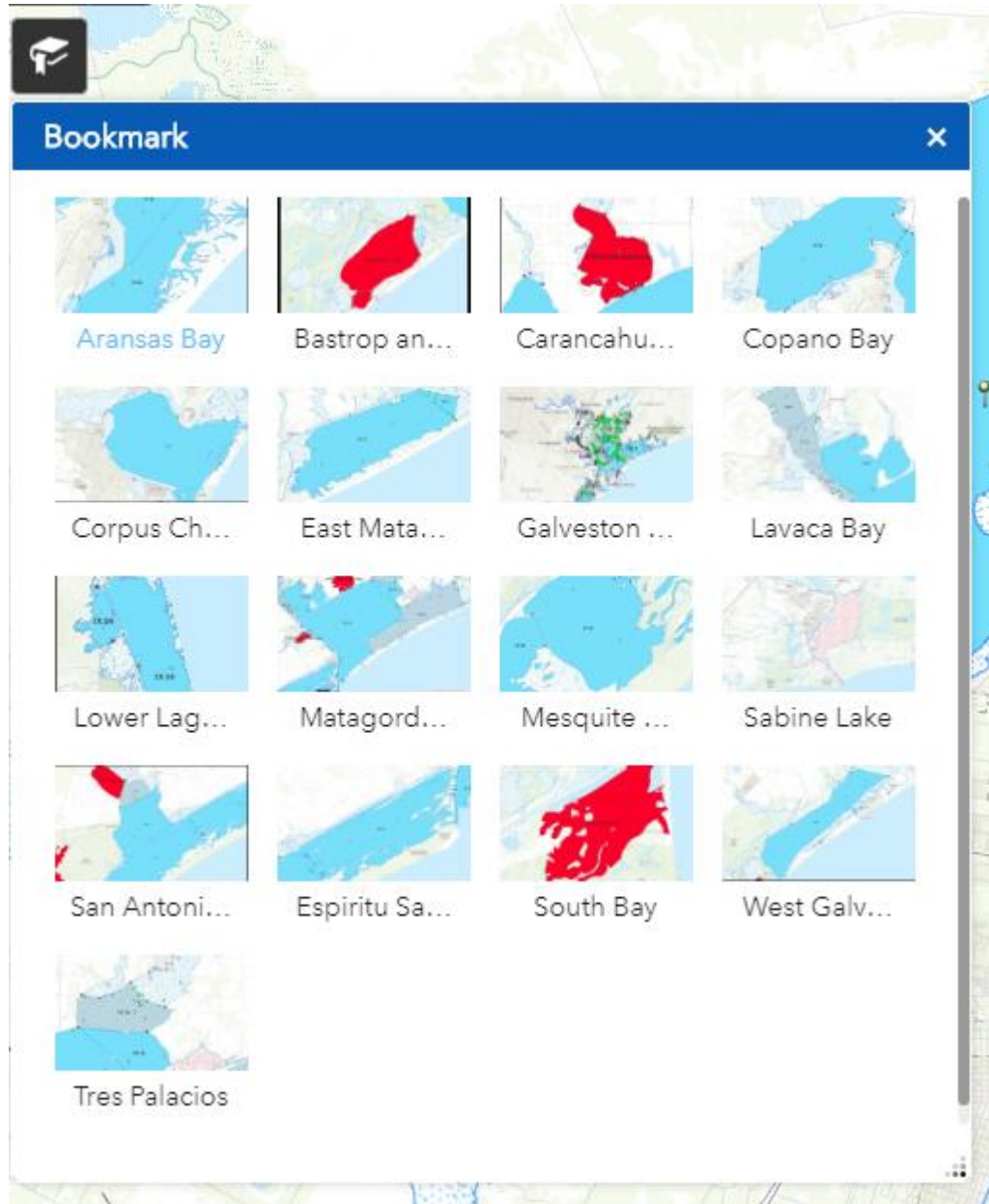
- Under **Embed this app in a website**, copy the Link preview and paste it into your website. If you want, click **Embed Options** to choose the size of your app to be embedded.



## Bookmark



- The **Bookmark** widget  stores a collection of map view extents (that is, spatial bookmarks) displayed in the app.
- Click the bookmark button  to display predefined bookmarks.
  - Click one of the bookmark thumbnails to set the map extent to the bookmark area.





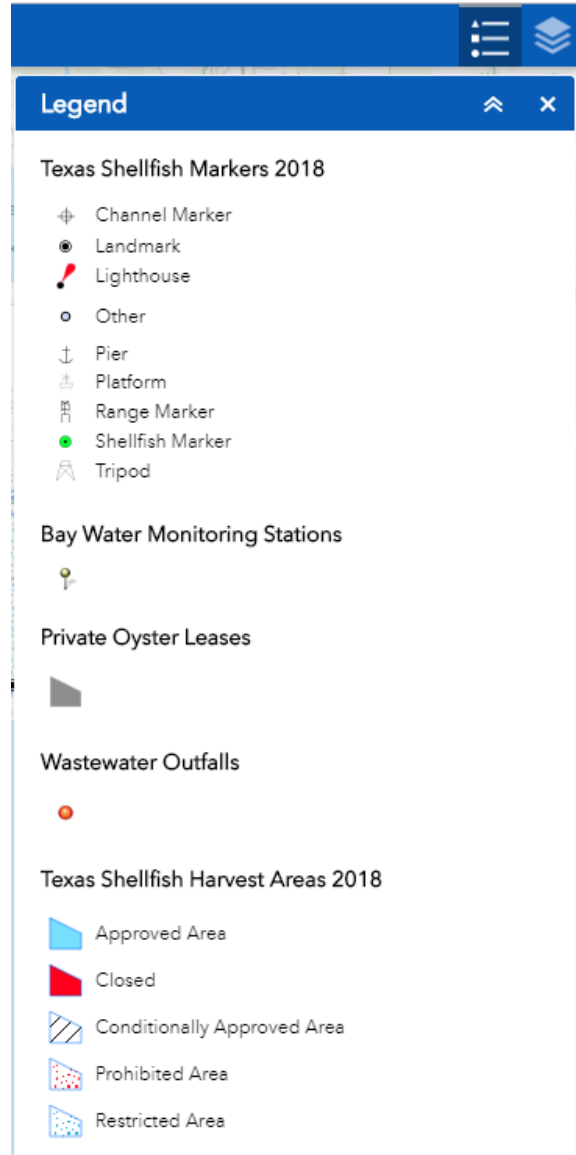
# Legend and Layers



## Legend








- The Legend widget displays labels and symbols for layers in the map.
- Click the legend button  to open the widget.
  - Clicking the Legend widget displays the Legend window.
  - Clicking the X in the upper right corner of the Legend window closes it.
  - Clicking the double arrows button  to dock the Legend window on the map.



## Layers



- The Layers widget provides a list of operational layers and their symbols and allows you to turn individual layers on and off. Each layer in the list has a check box that allows you to control its visibility (see screen shot on next page).
- Click the layers button  to open the widget.
  - Layers in the list are unavailable when zoomed out of their visible ranges.
  - Click an individual layer to show its symbols. Click it again to hide the symbols.
  - Click the three dots button  on the right side of a layer to display the layer menu with the following options:
    - **Zoom To**—Sets the map extent to the extent of the layer.
    - **Transparency**—Sets the transparency for the layer.
    - **Enable pop-up/Disable pop-up**—Enables or disables the pop-up for the feature layer. If a feature layer does not have a pop-up configured in the map, clicking **Enable Pop-up** shows all field values for the feature layer.
    - **Move up**—Moves the layer one level up.
    - **Move down**—Moves the layer one level down.
    - **View in attribute table**—Opens the attribute table for the feature layer.
    - **Show item details**—Opens the service description or the item details page for the service or the item associated with the layer if available.
    -
  - Click the search button  to find layers.
  - Click the control all layers button  to control the behavior of the layers in the list. You can turn the layers on or off and expand or collapse the layers.
  - Clicking the X in the upper right corner of the Legend window closes it.
  - Clicking the double arrows button  to dock the Legend window on the map.

The screenshot shows a 'Layer List' window in a GIS application. The window title is 'Layer List' and it has a search icon and a close icon. Below the title bar, the word 'Layers' is displayed with a search icon and a refresh icon. The list of layers includes:

- Texas Shellfish Markers 2018 (with a three-dot menu icon)
- Bay Water Monitoring
- Private Oyster Lease
- Wastewater Outfalls
- Texas Shellfish Harvest Areas 2018
- NOAA\_RNC

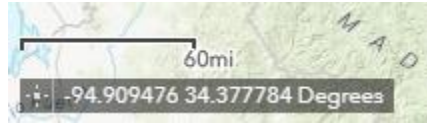
The 'Texas Shellfish Markers 2018' layer is expanded to show a list of marker types:


- Channel Marker
- Landmark
- Lighthouse
- Other
- Pier
- Platform
- Range Marker
- Shellfish Marker
- Tripod

A context menu is open over the 'Texas Shellfish Markers 2018' layer, listing the following actions:

- Zoom to
- Transparency
- Disable pop-up
- Move up
- Move down
- View in Attribute Table
- Show item details



## Coordinates and Scale Bar

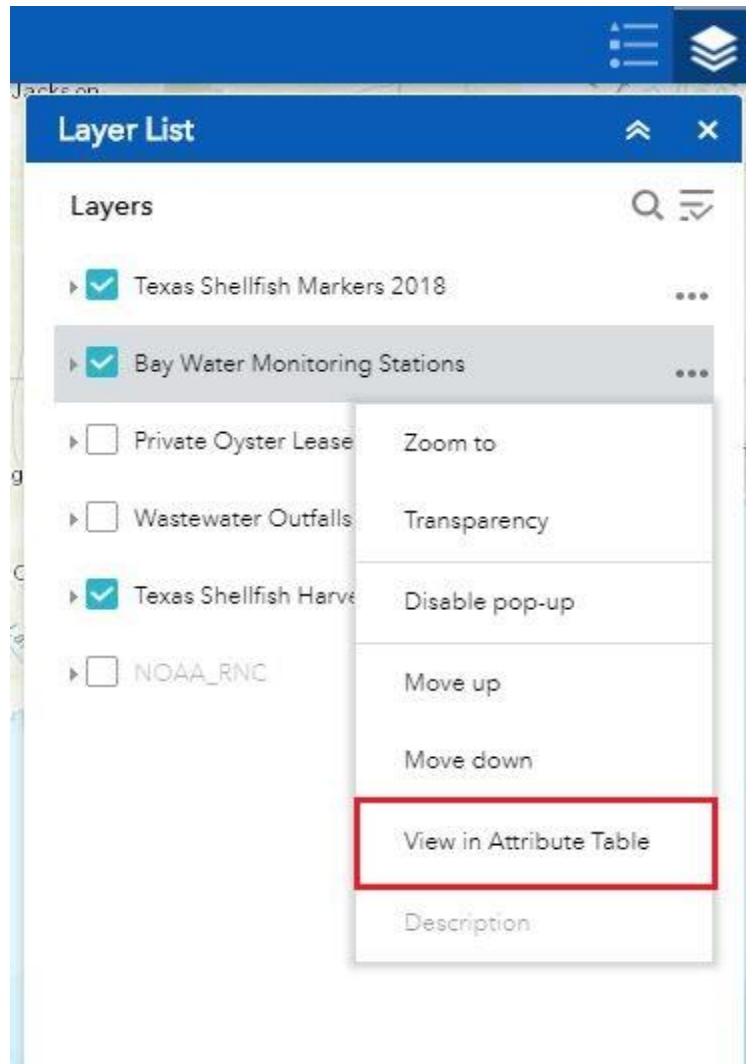


- The Coordinate widget displays x- and y- coordinate values on the map (lower-left corner of the app). With the default coordinate system of the web map, the coordinate values change dynamically when the mouse pointer moves to locations on the map.
- Click the Enable clicking the map to get coordinates button  to enable clicking the map to get coordinates.
- When the app starts the Scalebar widget is automatically enabled and displayed at the lower-left corner of the app. It is updated dynamically when the map's scale changes.

## Attribute Table

LONGDD	LATDD	LONG_NAME	TYPE	BAY
-97.010791	28.133249	Arkansas Bay North State Highway 35 Causeway	Landmark	Arkansas Bay
-97.023616	28.114973	Arkansas Bay South State Highway 35 Causeway	Landmark	Arkansas Bay
-96.931432	28.124099	Arkansas Bay Dunham Point	Landmark	Arkansas Bay
-97.013567	28.059733	Arkansas Bay Fulton Channel Marker #1	Channel Marker	Arkansas Bay
-97.004378	28.129847	Arkansas Bay Goose Island Double Wells	Landmark	Arkansas Bay
-96.977352	28.122425	Arkansas Bay Goose Island State Park End of Pier	Pier	Arkansas Bay
-97.011458	28.018837	Arkansas Bay Intracoastal Waterway Channel Marker #43	Channel Marker	Arkansas Bay

- The Attribute Table widget displays a tabular view of operational layers' attributes. It displays at the bottom of your web app and can be opened, resized, or closed. When more than one layer's attributes display, multiple tabs automatically generate in the attribute panel allowing you to switch among the attribute tables.
  - Click the arrow button  at the bottom of the map to open the attribute table.
  - To close the attribute table, click the arrow button  at the top of the attribute table.
  - Go to the Layers widget and click to open the Layer List menu and click View in Attribute Table.



- **Select a record**—click a record in the table to select it and highlight the corresponding feature in the map with the color specified in the Attribute Table widget configuration window. Double-clicking a field in the selected record zooms to the feature on the map. Press the Shift or Ctrl key to select multiple records.
- **Clear selections**—click the **Clear Selection** button to clear all selections.
- **Zoom to selected features**—click Zoom to reset the map extent to center around selected features.
- **Copy the field value**—double click the field value to highlight it, and right-click it to copy the value.
- **Refresh**—click Refresh to refresh the table.
- **Sort a field**—click a field heading to sort the records by this field.


**Show or hide columns**—click the plus button on the right side of the attribute table panel to open the field visibility window. Check or uncheck the fields to set them to visible or invisible in the table.

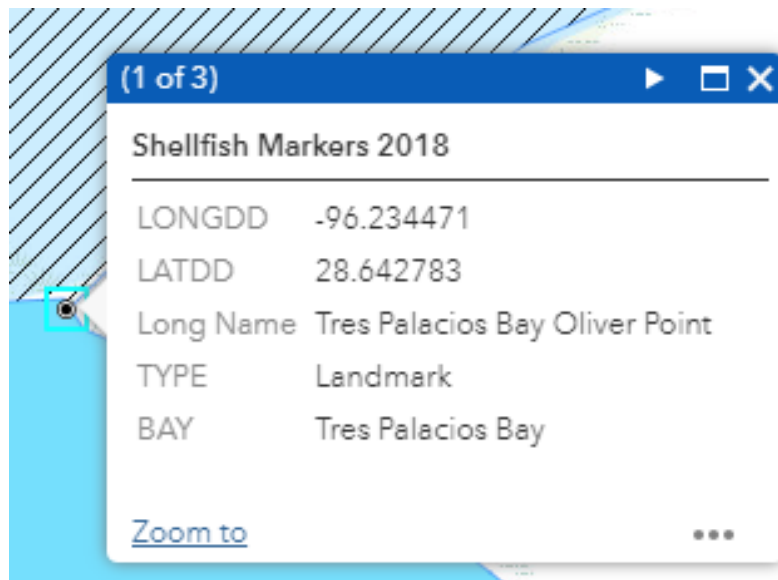




- **Number of selected records**—shown at the lower left of the table.
- **Options are as follows:**
  - Show Selected Records—displays selected records.
  - Show Related Records—displays related records if a selected record has a related table.
  - Filter—filters records in the table.
  - Filter by Map Extent—displays attributes for features within the current map extent.
  - Show or Hide Columns—Equivalent to clicking the plus button on the right side of the panel to set visibility for individual fields.
- Clicking a record in the table highlights associated features on the map, and vice versa.

## Shellfish Marker Feature Pop-ups



- This shellfish marker displays a landmark point. There are many shellfish marker symbols as described in the legend above. Each type of shellfish marker feature has its own pop-up within this viewer. The pop-ups will all work the same. Also, bay water monitoring stations and wastewater outfall pop-ups will work very similar.
  - Click a map symbol  and a pop-up window will appear displaying related information to the selected map symbol.

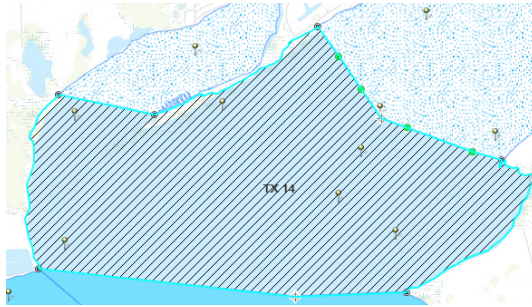


- Map symbol pop-up links:
  - **Zoom to**—click the 'Zoom to' link to zoom into the water body.
  - Click the three dots  on the lower right side of the pop-up to display a menu with options:
    - Pan to—click 'Pan to' to pan or center the fish symbol selected on the screen.
    - Add a marker—click 'Add a marker' to add an additional marker on the map.
    - View in Attribute Table—click 'View in attribute table' to display the selected water body attributes in the attribute table.
  - Click the three dots  on the lower right side of the pop-up to display a menu with options:

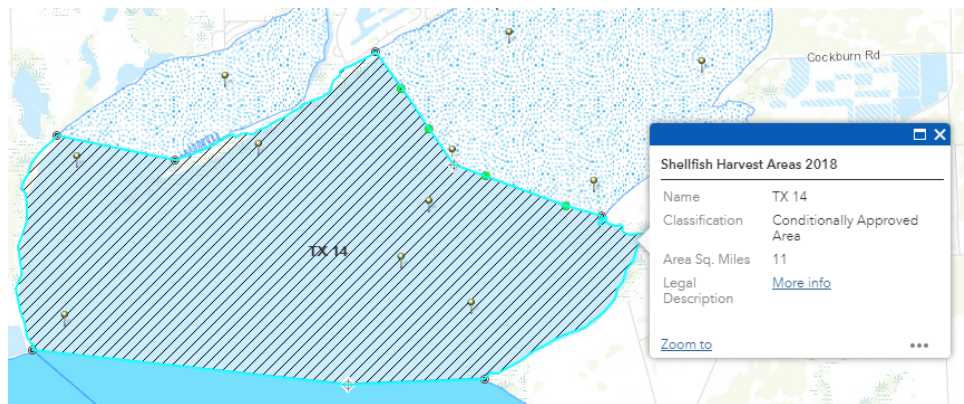


- Pan to—click 'Pan to' to pan or center the fish symbol selected on the screen.
- Add a marker—click 'Add a marker' to add an additional marker on the map.
- View in Attribute Table—click 'View in attribute table' to display the selected water body attributes in the attribute table.



## Shellfish Harvest Area Feature Pop-ups



- Shellfish harvest areas are classified as approved, conditionally approved, prohibited, and restricted.
  - Click a shellfish harvest area and a pop-up window will appear displaying related information to the shellfish harvest area.



- Shellfish harvest area pop-up links:
  - **Legal Description**—click the 'More info' link and a pdf map with legal description of the shellfish harvest area will download.
  - **Zoom to**—click the 'Zoom to' link to zoom into the water body.

- Click the three dots  on the lower right side of the pop-up to display a menu with options:
  - Pan to—click 'Pan to' to pan or center the fish symbol selected on the screen.
  - Add a marker—click 'Add a marker' to add an additional marker on the map.
  - View in Attribute Table—click 'View in attribute table' to display the selected water body attributes in the attribute table.
- Click the three dots  on the lower right side of the pop-up to display a menu with options:
  - Pan to—click 'Pan to' to pan or center the fish symbol selected on the screen.
  - Add a marker—click 'Add a marker' to add an additional marker on the map.
  - View in Attribute Table—click 'View in attribute table' to display the selected water body attributes in the attribute table.

## References

1. Environmental Systems Research Institute (ESRI). ArcGIS Online, Web AppBuilder for ArcGIS. <http://doc.arcgis.com/en/web-appbuilder/> (Accessed October 17, 2018).