

# **HRSA Geospatial Data Warehouse Map Tool Help**

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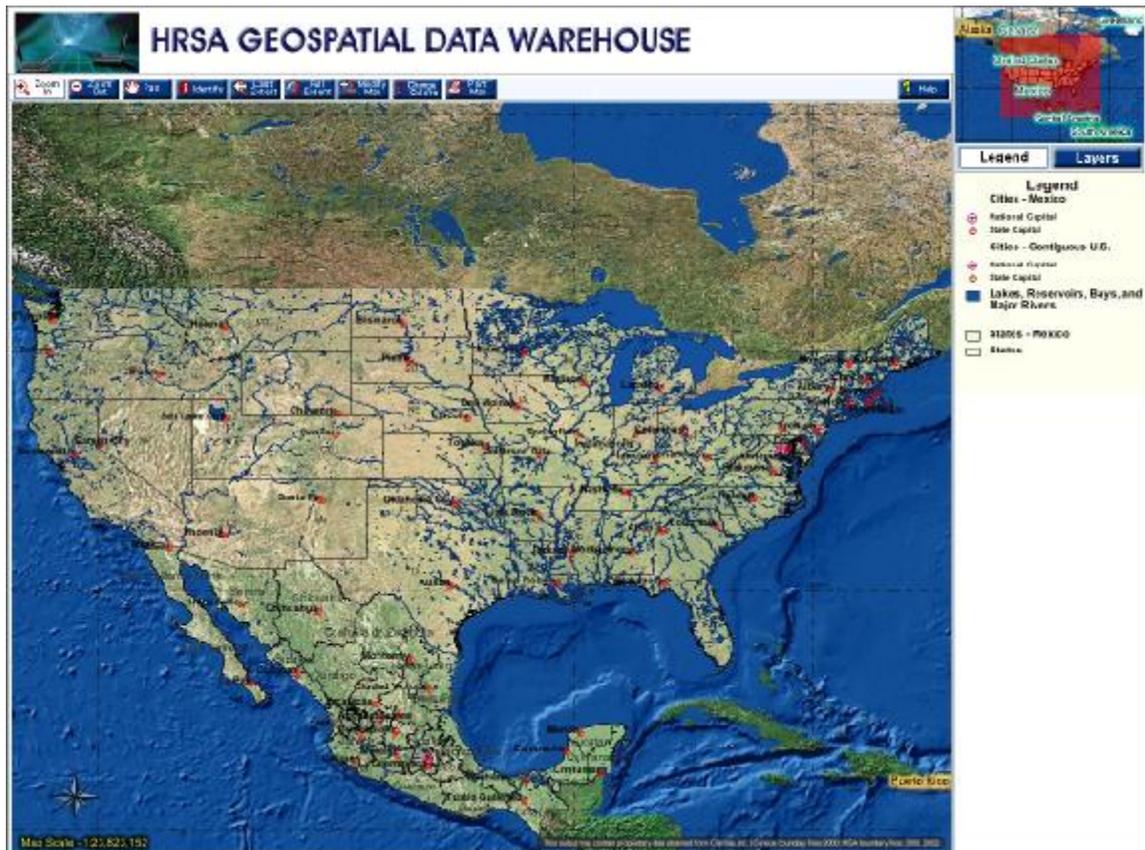
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# Getting Started

## Welcome to the HRSA Map Tool



The HRSA Geospatial Data Warehouse and its associated applications provide HRSA employees and other users with access to a broad range of information about HRSA programs, related health resources, and demographic data useful for planning and policy purposes. A data warehouse is a centralized store of an organization's data resources implemented specifically for query, reporting, and analysis purposes.

The Map Tool allows users to create a graphic presentation of the data contained in the HRSA Geospatial Data Warehouse, and uses a map display to place the data in a geographic context. The Map Tool allows the visualization of HRSA's grant data and HRSA-specific geographic designations such as Health Professional Shortage Areas (HPSAs), Medically Underserved Areas/Populations (MUA/P), and Primary Care Service Areas (PCSAs). In addition, cities, highways, lakes, rivers and other physical features can be added to the display. The maps can be printed to any printer available from your web

## HRSA Geospatial Data Warehouse Map Tool Help

browser. Business metadata is also provided to enable users to properly understand, analyze and present findings based on the information.

The HRSA Geospatial Data Warehouse will continue to evolve with HRSA's growing and changing data reporting and analysis needs. New sources of information will be added to the HRSA Geospatial Data Warehouse on a regular basis. New features will be added to the Map Tool to accommodate new data sources and provide additional functionality.

For detailed information on the using the Map Tool, use the *Table of Contents* pane to the left to select topic(s) within a chapter. For more information on using the Map Tool help, please refer to Help on Help.

## Interactive Map Window



The Interactive Map window provides a geographic display allowing the user to discover information through manipulation of the map.

- Tool Bar - the Tool Bar contains buttons that allow you to manipulate the display.
- Locator Map - this map shows a representation of the area covered by the map display.
- Map Display - this area displays the interactive map.
- Legend Layers List - this area displays either the map legend or the layer list. Click the Legend or Layers button respectively to reveal these items.
- North Arrow - This symbol indicates the cardinal directions (North, South, East, West).

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- **Map Scale** - A map represents the world's features at a smaller size. The ratio of this reduction is the scale of the map. A scale of 1:10,000 means 1 unit on the map represents 10,000 units; for example 1 inch on the map would represent 10,000 inches in the physical world.

For more detailed information on getting started, please refer to: [How to Create a Map](#).

**NOTE:** Once a map is generated, it will time out after 20 minutes of inactivity.

## System Requirements

### Requirements:

- Browser - Internet Explorer 6.0 or above

### For best results:

- Resolution - 1024 x 768 screen resolution (or better)
- Color depth - True Color (32 bit)



# Create a Map

## How to Create a Map

When the Map Tool is started, a three step process for creating the map is presented.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"><li>■ State or U.S. Territory</li><li>■ County or Equivalent</li><li>■ City</li><li>■ Metropolitan Statistical Area</li><li>■ ZIP Code</li><li>■ HHS Region</li></ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"><li>■ U.S. - Mexico Border Health Initiative Area</li></ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"><li>■ U.S. Congressional District (108th Congress)</li></ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>Select a State or U.S. Territory:</b></p> <p>Contiguous U.S. <input type="text"/></p>

- Step 1. Specify Area of Interest - specify the geographic area of interest (*AOI*) for the map, such as the state of California or Health and Human Services (HHS) Region IV.
- Step 2. Select Data Layers - select the information (data layers) you want to display on the map, choosing from categories such as *HRSA Programs* and/or *Demographics and Statistics*.
- Step 3. Verify Selections - verify the selections you have made in steps 1 and 2. When you are satisfied with your selections click the *Make Map* button to generate the map display in the Interactive Map Window.

## Step 1. Specify Area of Interest

Click the **Step 1. Specify Area of Interest** tab if not selected to see the screen below.

To specify your area of interest (AOI), click one of the categories listed on the left. With the exception of Special Initiatives, all categories provide additional options on the right side of the screen allowing you to further define your AOI.

For detailed information on the area of interest categories and their options, please refer to the following:

- State or U.S. Territory
- County or Equivalent
- City
- Metropolitan Statistical Area
- ZIP Code
- HHS Region
- U.S. - Mexico Border Health Initiative Area
- U.S. Congressional District (108th Congress)

After specifying your area of interest, proceed to Step 2. Select Data Layers.

## Step 2. Select Data Layers

Click the **Step 2. Select Data Layers** tab if not selected to see the screen below.

To select one or more data layers, click a category tab and select the desired layer. Each category provides additional options allowing you to select specific data layers for display.

Step 1. Specify Area of Interest
**Step 2. Select Data Layers**
Step 3. Verify Selections

All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.

HRSA Programs
Health Systems
Demographics & Statistics
Administrative
Roads
Water

HRSA Grant Programs
Other HRSA Activities

Fiscal Year:  (Choose one FY at a time; you may mix FYs by repeating the selection process for each FY in turn.)

Filter Grants By Key Program Area:  (Selecting a key program area filters the list of grant programs based on AOI, FY, and selected key program area)

HRSA Grant Programs:

Abstinence Special Projects  
 Advanced Education Nursing Grants  
 ASPH Cooperative Agreement  
 Basic Nurse Education And Practice  
 Basic/Core Area Health Education Centers  
 Bioterrorism-Hospital Preparedness Program  
 Bioterrorism-Training and Curriculum Development Program  
 Brain Injury Linkages for Improved Outcomes Program

Select one or more HRSA Grant Programs, then click the "Add" button to include them in the list of selected Programs.

**Selected Programs (by Key Program Area and FY)**

No programs selected

Colors on the map distinguish between...
Years: 
Key Program Areas:

For detailed information on how to select available options, see the following:

- HRSA Grant Programs
- Other HRSA Activities

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- Health Systems
- Demographics and Statistics
- Administrative
- Roads
- Water

After selecting data layers, proceed to Step 3. Verify Selections.

## Step 3. Verify Selections

Click the **Step 3. Verify Selections** tab if not selected to see the screen below.

The **Area of Interest** text area displays the specified area of interest. The **Data Layer Selection** list displays your selected data layers. If you wish to change your area of interest or change your data layer selections click the appropriate tab to make your changes and return to *Step 3. Verify Selections*.

The screenshot shows a web interface with three tabs: "Step 1. Specify Area of Interest", "Step 2. Select Data Layers", and "Step 3. Verify Selections". The "Step 3. Verify Selections" tab is selected. Below the tabs, there is a section labeled "Area of Interest:" with a text input field containing "California". Below that is a section labeled "Data Layer Selection:" with a list box containing the following items: "Community Health Centers Program (2004)", "Geriatric Education Centers (2004)", "Maternal and Child Health Services (2004)", "Medicare Rural Hospital Flexibility (2004)", and "Community Health Centers Program (2003)". At the bottom of the interface are two buttons: "Make Map" and "Remove from List".

- Click the **Make Map** button to create the map display in the *Interactive Map* window.
- Select an item in the list, then click the **Remove from List** button to remove unwanted data layers from your list.

**NOTE:** By default, your map will always include state boundaries and large bodies of water. If you choose no other data, the map will still show these layers.



# Using the Tool Bar

## How to Use the Tool Bar

The *Tool Bar* provides the primary means of working with the *Interactive Map* window. There are two types of *Tool Bar* buttons:

- **Multi-click buttons:** Click on a *Multi-Click* button and that function remains selected until another button is clicked. When a multi-click button is selected, click or drag in the map display window to perform the function, such as *Zoom In* or *Pan*. The map display will not change until you click or drag in the map display window. The map display window will respond in the same manner until you click some other button.
- **Single-click buttons:** Click on a *Single-Click* button to immediately perform the function, such as *Modify Map* or *Change Colors*.

For more detailed information, see the following table:

Multi-Click Buttons		
Not Selected	Selected	
		Click the <i>Zoom In</i> button and it changes color to show the <i>Zoom In</i> function is selected. While selected, click on the map display to zoom in (move closer to the map) such that the location clicked is centered in the map display. You may also zoom in on an area by defining it with the mouse. Click and hold the left mouse button to select a corner, and drag to draw the box. Release the mouse button and the map zooms in and centers the area defined by the box.
		Click the <i>Zoom Out</i> button and it changes color to show the <i>Zoom Out</i> function is selected. While selected, click on the map display to zoom out (move farther away from the map) such that the location clicked is centered in the map display. You may also zoom out on an area by defining it with the mouse. Click and hold the left mouse button to select a corner, and drag to draw the box. Release the mouse button and the map zooms out and centers the area defined by the box. The smaller the area of the defined box, the more the map zooms out.

		<p>Click the <i>Pan</i> button and it changes color to show the <i>Pan</i> function is selected. While selected, clicking on the map display causes the view to be centered at that point.</p>
		<p>Click the <i>Identify</i> button and it changes color to show the <i>Identify</i> function is selected. See <i>How to Identify Map Features</i> for further detail.</p>

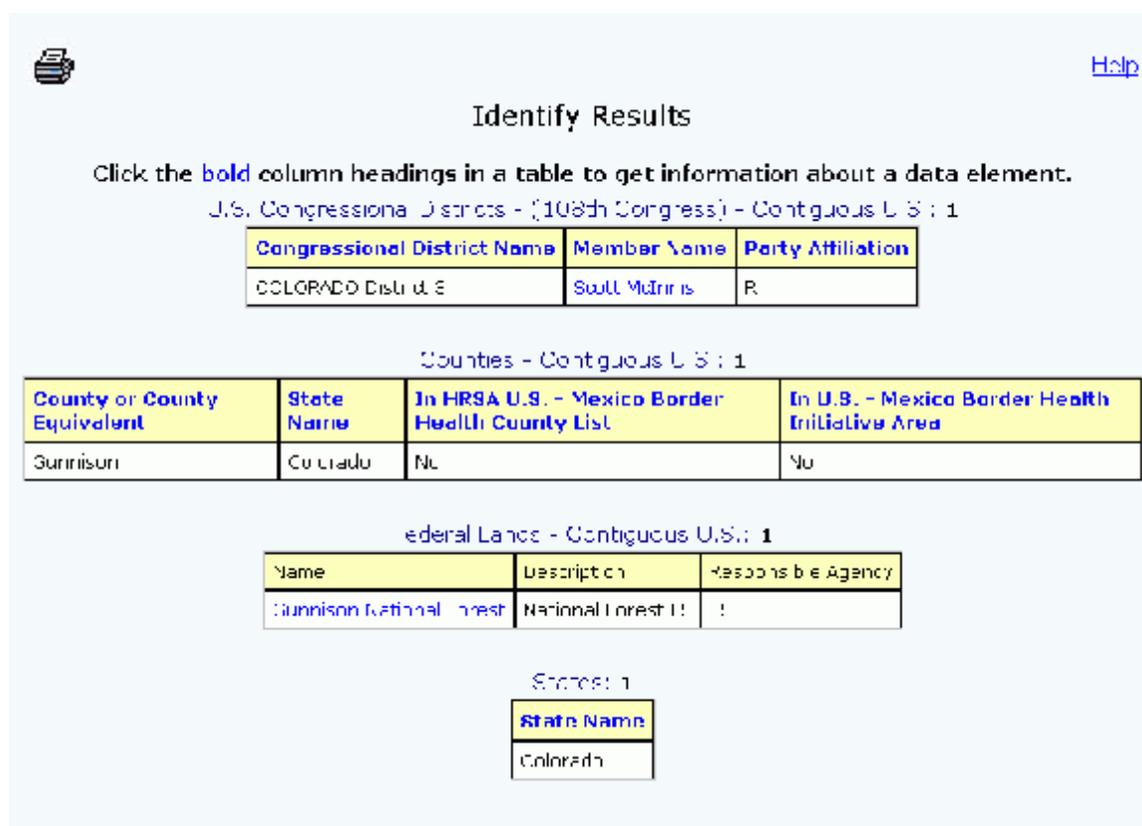
<b>Single-Click Buttons</b>	
	<p>Click the <i>Last Extent</i> button and the map display returns to the extent of the previous map display.</p>
	<p>Click the <i>Full Extent</i> button and the map display zooms out to show the full extent selected in Step 1.</p>
	<p>Click the <i>Modify Map</i> button to modify the area of interest and/or selected data layers. See <i>How to Modify a Map</i> for further detail.</p>
	<p>Click the <i>Change Colors</i> button to change the colors used to represent data layers. See <i>How to Change Colors</i> for further detail.</p>
	<p>Click the <i>Print Map</i> button to produce a printable version of your map. See <i>How to Print a Map</i> for further detail.</p>
	<p>Click the <i>Help</i> button to view the HRSA Map Tool Help System.</p>

# Identify Map Features

## How to Identify Map Features

Click the  button on the Tool Bar and it changes color to show the *Identify* function is selected. While selected, click a location in the map display to view feature information for the layers that are checked on in the layer list. The *Identify Results* window opens, presenting the feature information in tabular format.

Each table includes the title of the layer and the count of the features identified as shown in the example *Identify Results* below.



The screenshot shows the 'Identify Results' window with a printer icon on the top left and a 'Help' link on the top right. The window title is 'Identify Results'. Below the title, there is a instruction: 'Click the **bold** column headings in a table to get information about a data element.'

The first table is titled 'U.S. Congressional Districts - (108th Congress) - Contiguous U.S.: 1'. It has three columns: **Congressional District Name**, **Member Name**, and **Party Affiliation**. The data row shows 'COLORADO District 8', 'Sull McInnis', and 'R'.

The second table is titled 'Counties - Contiguous U.S.: 1'. It has four columns: **County or County Equivalent**, **State Name**, **In HRSA U.S. - Mexico Border Health County List**, and **In U.S. - Mexico Border Health Initiative Area**. The data row shows 'Gunnison', 'Colorado', 'No', and 'No'.

The third table is titled 'Federal Lands - Contiguous U.S.: 1'. It has three columns: **Name**, **Description**, and **Responsible Agency**. The data row shows 'Gunnison National Forest', 'National Forest System', and '!'.

The fourth table is titled 'States: 1'. It has one column: **State Name**. The data row shows 'Colorado'.

- Click the  icon to print the *Identify Results* window contents.
- Click the *Help* link to view this help page.
- Many column headings are linked to the Data Dictionary, which contains descriptions of the data elements in the HRSA Geospatial Data

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Warehouse. Click any **bold** column heading in a table to see the Data Dictionary entry for that specific data element.

- Many column values are [hypertext links](#). Clicking these links provides additional information.

# Legend Layer List

## Using the Legend Layer List

Click on the *Legend* or *Layers* button in the *Legend Layer List* of the *Interactive Map* window to switch between the display of the map legend and the list of data layers selected in Step 2.

The screenshot displays two side-by-side panels. The left panel, titled "Legend", lists various data layers with corresponding symbols: Advanced Education Nursing Grants (2003) (circle with dot), Allied Health Projects (2003) (book icon), Basic/Core Area Health Education Centers (2003) (green triangle), Healthy Start Initiative-Eliminating Racial/Ethnic Disparities (2004) (checkmark), Maternal and Child Health Services (2004) (gears), Community Health Centers Program (2004) (star), Health Center Cluster (2004) (person icon), Lakes, Reservoirs, Bays, and Major Rivers (blue square), States - Mexico (yellow square), and States (white square). The right panel, titled "Layers", has an "On/Off" section with a list of layers and checkboxes: Health Professions (checked), Advanced Education Nursing Grants (2003) (checked), Allied Health Projects (2003) (checked), Basic Nurse Education And Practice (2003) (unchecked), Basic/Core Area Health Education Centers (2003) (checked), Maternal and Child Health (checked), Healthy Start Initiative-Eliminating Racial/Ethnic Disparities (2004) (checked), Maternal and Child Health Services (2004) (checked), Primary Health Care (checked), Community Health Centers Program (2004) (checked), Health Care for the Homeless (2004) (unchecked), Health Center Cluster (2004) (checked), Special Programs (unchecked), and Trauma Emergency Medical Services (2002) (checked). A "Refresh Map" button is located at the bottom right. The word "OR" is centered between the two panels.

Legend	
<input checked="" type="checkbox"/>	Advanced Education Nursing Grants (2003)
<input checked="" type="checkbox"/>	Allied Health Projects (2003)
<input checked="" type="checkbox"/>	Basic/Core Area Health Education Centers (2003)
<input checked="" type="checkbox"/>	Healthy Start Initiative-Eliminating Racial/Ethnic Disparities (2004)
<input checked="" type="checkbox"/>	Maternal and Child Health Services (2004)
<input checked="" type="checkbox"/>	Community Health Centers Program (2004)
<input checked="" type="checkbox"/>	Health Center Cluster (2004)
<input checked="" type="checkbox"/>	Lakes, Reservoirs, Bays, and Major Rivers
<input type="checkbox"/>	States - Mexico
<input type="checkbox"/>	States

OR

Layers	
On/Off	
<input checked="" type="checkbox"/>	Health Professions
<input checked="" type="checkbox"/>	Advanced Education Nursing Grants (2003)
<input checked="" type="checkbox"/>	Allied Health Projects (2003)
<input type="checkbox"/>	Basic Nurse Education And Practice (2003)
<input checked="" type="checkbox"/>	Basic/Core Area Health Education Centers (2003)
<input checked="" type="checkbox"/>	Maternal and Child Health
<input checked="" type="checkbox"/>	Healthy Start Initiative-Eliminating Racial/Ethnic Disparities (2004)
<input checked="" type="checkbox"/>	Maternal and Child Health Services (2004)
<input checked="" type="checkbox"/>	Primary Health Care
<input checked="" type="checkbox"/>	Community Health Centers Program (2004)
<input type="checkbox"/>	Health Care for the Homeless (2004)
<input checked="" type="checkbox"/>	Health Center Cluster (2004)
<input type="checkbox"/>	Special Programs
<input checked="" type="checkbox"/>	Trauma Emergency Medical Services (2002)

Refresh Map

- Click the **Legend** button to display the map legend. The legend shows symbols used to represent data on the map along with text describing what each symbol represents.

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- Click the  button to display a list of data layers selected in Step 2. Select the layer(s) to be displayed by checking the *On/Off* check box. Layers with a check in the *On/Off* box are displayed on the map, unchecked layers are not. HRSA Grant Layers are grouped by HRSA Key Program Area; if a key program area *On/Off* box is unchecked, no HRSA grant programs within that key program area are displayed on the map regardless of whether individual HRSA Grant Program layers within the group are checked. e.g. Trauma Emergency Medical Services (2002) within the Special Programs key program area.
- Click the  button to redraw the map using the currently checked layers.

# Modify a Map

## How to Modify a Map

When you click the  button on the *tool bar* in the *Interactive Map* window, a three step process for modifying the map is presented. This process is very similar to the three step process you completed when you initially created your map.

**NOTE:** You must close the *modify map* window before beginning to work with the *Interactive Map* window again. The *modify map* window can be closed using the

 button in Step 3.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"><li>■ State or U.S. Territory</li><li>■ County or Equivalent</li><li>■ City</li><li>■ Metropolitan Statistical Area</li><li>■ ZIP Code</li><li>■ HHS Region</li></ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"><li>■ U.S. - Mexico Border Health Initiative Area</li></ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"><li>■ U.S. Congressional District (108th Congress)</li></ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>Select a State or U.S. Territory:</b></p> <p><input type="text" value="Contiguous U.S."/> ▾</p>

- Step 1. Specify Area of Interest - modify the geographic area of interest (AOI) for the map, such as the state of California or Health and Human Services (HHS) Region IV.
- Step 2. Select Data Layers - modify the information (data layers) you want to display on the map, choosing from categories such as *HRSA Programs* and/or *Demographics and Statistics*.
- Step 3. Verify Selections - verify the selections you have made in steps 1 and 2. When you are satisfied with your selections click the *Make Map* button to generate the map display in the Interactive Map Window.

## Step 1. Specify Area of Interest

Click the **Step 1. Specify Area of Interest** tab if not selected to see the screen below.

To modify your area of interest (AOI), click one of the categories listed on the left. With the exception of Special Initiatives, all categories provide additional options on the right side of the screen allowing you to further define your AOI.

For detailed information on categories and their options, see the following:

- State or U.S. Territory
- County or Equivalent
- City
- Metropolitan Statistical Area
- ZIP Code
- HHS Region
- U.S. - Mexico Border Health Initiative Area
- U.S. Congressional District (108th Congress)

**NOTE:** Selected data layers may not be retained when you modify your *area of interest* because not all information is available in all areas of interest.

After modifying your area of interest, proceed to Step 2. Select Data Layers.

## Step 2. Select Data Layers

Click the **Step 2. Select Data Layers** tab if not selected to see the screen below.

To select one or more data layers, click a category tab and select the desired layer. Each category provides additional options allowing you to select specific layers for display.

Step 1. Specify Area of Interest
**Step 2. Select Data Layers**
Step 3. Verify Selections

All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.

HRSA Programs

Health Systems

Demographics & Statistics

Administrative

Roads

Water

HRSA Grant Programs

Other HRSA Activities

Fiscal Year:  (Choose one FY at a time; you may mix FYs by repeating the selection process for each FY in turn.)

Filter Grants By Key Program Area:  (Selecting a key program area filters the list of grant programs based on AOI, FY, and selected key program area)

HRSA Grant Programs:

- Abstinence Special Projects
- Advanced Education Nursing Grants
- ASPH Cooperative Agreement
- Basic Nurse Education And Practice
- Basic/Core Area Health Education Centers
- Bioterrorism-Hospital Preparedness Program
- Bioterrorism-Training and Curriculum Development Program
- Brain Injury Linkages for Improved Outcomes Program

Select one or more HRSA Grant Programs, then click the "Add" button to include them in the list of selected Programs.

**Selected Programs (by Key Program Area and FY)**

No programs selected

Colors on the map distinguish between...
Years: 
Key Program Areas:

For detailed information on the available information within each data layer category, please refer to the following:

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- HRSA Grant Programs
- Other HRSA Activities
- Health Systems
- Demographics and Statistics
- Administrative
- Roads
- Water

After you have finished selecting data layers, proceed to Step 3. Verify Selections.

## Step 3. Verify Selections

Click the **Step 3. Verify Selections** tab if not selected to see the screen below.

The **Area of Interest:** area displays your specified area of interest. The **Data Layer Selection:** area lists your selected data layers. If you wish to change your area of interest or change your data layer selections click the appropriate tab to make your changes and return to *Step 3. Verify Selections*.

- Click the **Make Map** button to update the display in the Interactive Map Window. If you have chosen an area of interest that is different from the one the map window is currently using, the map window will automatically zoom to the new area of interest. If you have only changed the data selections, the map will remain at the same extent it had when you clicked the  button on the *tool bar*
- Click the **Remove from List** button to remove unwanted data layers from your list.
- Click the **Cancel** button to abandon changes and return to the Interactive Map Window.

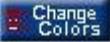
**NOTE:** By default, your map will always include state boundaries and large bodies of water. If you choose no other data, the map will still show these layers.

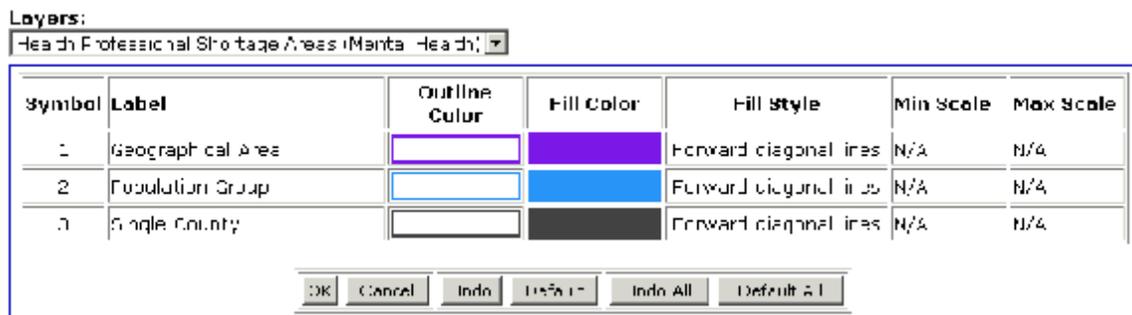


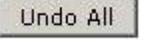
# Change Colors

## How to Change Colors

The procedure to change data layer colors is similar for all layers except for Demographics and Statistics layers, which provide a wider range of options. For details, see How to Change Colors for Demographics and Statistics. For all other layers, the following applies.

Click the  button on the *Tool Bar* in the *Interactive Map* window to open the *Change Layer Colors* window and display the *Layers* drop down list above a table displaying the symbol properties of the selected layer.



- Click the appropriate *Outline Color* or *Fill Color* cell to open the *Choose Symbol Colors* window and display the available color and fill options for that symbol. For details, see How to Choose Symbol Colors.
- Click the  button to apply the changes and close the *Change Layer Colors* window.
- Click the  button to abandon all current changes and close the window.
- Click the  button to abandon current changes to the selected layer.
- Click the  button to restore the pre-defined colors and fills for the selected layer.
- Click the  button to abandon current changes to all layers.

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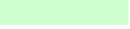
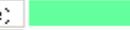
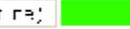
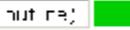
- Click the  button to restore the pre-defined colors and fills for all available layers.

## How to Change Colors for Demographics and Statistics

The procedure to change data layer colors is similar for all layers except for Demographics and Statistics data layers, which provide a wider range of options. For details on other layers, see [How to Change Colors](#). For *Demographics and Statistics* layers, the following applies.

Click the  button on the *Tool Bar* in the *Interactive Map* window to open the *Change Layer Colors* window and display the *Layers* drop down list above a table displaying the symbol properties of the selected layer. *Demographic and Statistics* layers are assigned a pre-defined group of colors called a color ramp.

Layers:  
Population Age 18 to 64 by County (Percent of total population) (entire dataset) ▾

Symbol	Label	Outline Color	Fill Color	Fill Style	Min Scale	Max Scale
	Less than 49.70%	(No outline)		Solid	N/A	N/A
2	49.70% to less than 53.79%	(No outline)		Solid	N/A	N/A
3	53.79% to less than 57.29%	(No outline)		Solid	N/A	N/A
4	57.29% to less than 61.74%	(No outline)		Solid	N/A	N/A
5	61.74% to less than 65.79%	(No outline)		Solid	N/A	N/A
6	65.79% and Over	(No outline)		Solid	N/A	N/A

OK Cancel Undo Default Undo All Default All

- Select a layer to change from the *Layers* drop down list.
- Click the *Fill Color* cell of a symbol to change the colors and/or fill patterns of the layer. For more detailed information, see [How to Choose Symbol Colors for Demographic and Statistics](#).
- Click the  button to apply the changes and close the *Change Layer Colors* window.
- Click the  button to abandon all current changes and close the window.
- Click the  button to abandon current changes to the selected layer.
- Click the  button to restore the pre-defined fills for the selected layer.

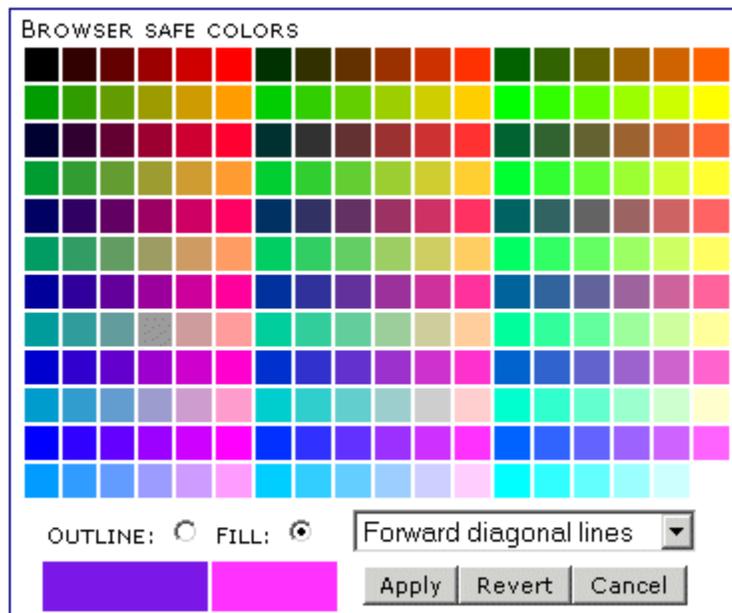
## HRSA Geospatial Data Warehouse Map Tool Help

- Click the  button to abandon current changes to all layers.
- Click the  button to restore the pre-defined for all available layers.

## How to Choose Symbol Colors

The procedure to change symbol colors is similar for all data layers except for Demographics and Statistics layers, which provide a wider range of options. For details on changing symbol colors for the *Demographics and Statistics* layers, see *How to Choose Symbol Colors for Demographics and Statistics*. For all other layers, the following applies.

Click the appropriate *Outline Color* or *Fill Color* cell in the *Change Layer Colors* window to open the *Choose Symbol Colors* window (shown below) and display the available color and fill options for that symbol.



- Click the *Outline* radio button and then click a colored square in the table of *Browser Safe Colors* to change the color for the symbol's outline. The colored box below the *Outline* radio button changes to the selected color.
- Click the *Fill* radio button and then click the colored square in the table of *Browser Safe Colors* to change the color for that symbol's fill pattern. The color box below the *Fill* radio button changes to the selected color.
- Click the *Fill* radio button and select the desired pattern from the drop down list to change the symbol's fill pattern.
- Click **Apply** to apply the color and/or fill selections and close the window.

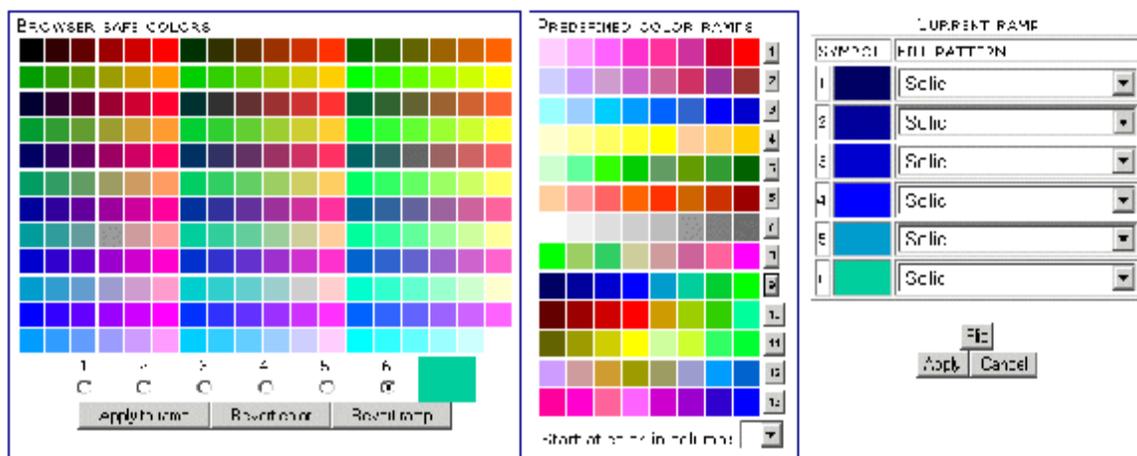
## HRSA Geospatial Data Warehouse Map Tool Help

- Click **Revert** to abandon changes you have made in this window.
- Click **Cancel** to abandon any changes and close the window.

## How to Choose Symbol Colors for Demographics and Statistics

The procedure to change symbol colors is similar for all data layers except for Demographics and Statistics layers, which provide a wider range of options. For details on changing the symbol colors of other layers, see *How to Choose Symbol Colors*. For *Demographic and Statistics* layers, the following details apply.

Click any *Fill Color* cell in the *Change Colors* window to open the *Choose Symbol Colors* window (shown below) and display the available color and fill options for that symbol.



### Browser Safe Colors

You may customize the current ramp colors individually to meet your specific needs. You may change one or all of the colors in the current ramp.

- Click the numbered radio button at the bottom of the *Browser Safe Colors* area that corresponds to the symbol color that you wish to change. Click on the color boxes above to select a color for that symbol. Your color selection is shown in the color box to the right.
- Click  to apply the symbol color to the current color ramp.
- Click  to abandon any changes to that symbol's color.
- Click  to abandon any changes to the ramp colors.

## Predefined Color Ramps

The *Predefined Color Ramp* area allows you to assign a pre-defined ramp for the selected layer. A color ramp is the series of colors used to display each data value classification for a layer.

- Each predefined ramp has 8 colors. There may be up to 8 data value classifications for a given layer. For layers with fewer than 8 data value classifications the *Start at color in column* drop down list can be used to specify the column for the starting color in any of the predefined color ramps. This selection does not change the current ramp assignment, but determines how predefined ramp colors are assigned to the data value classifications when the predefined color ramp is selected. If there are 8 symbols in the layer, this drop down list is not displayed.
- Click the numbered button to the right of a ramp or any color in the ramp row to assign that ramp. The assigned ramp colors will be displayed as the *Current Ramp*.

## Current Ramp

The *Current Ramp* displays the chosen color ramp and allows changes in the *fill pattern* for each symbol.

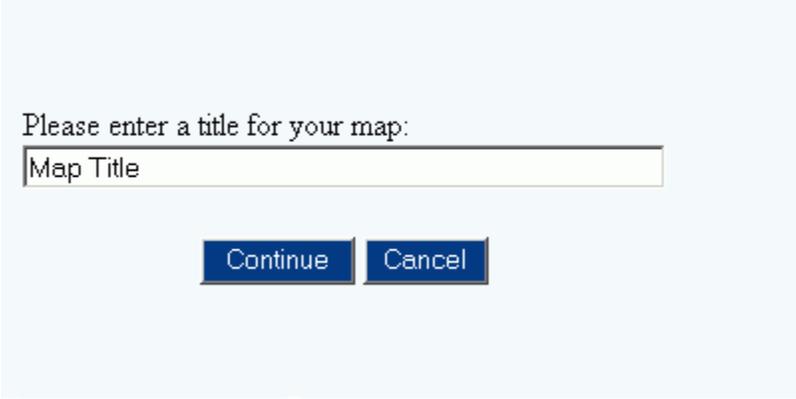
- Select the desired symbol fill pattern from the drop down list to the right of the symbol's color box.
- Click  to reverse the order of the color ramp assigned to the layer.
- Click  to apply any changes to the color ramp and fill patterns and close the window.
- Click  to abandon any changes to the color ramp and fill patterns and close the window.

# Print a Map

## How to Print a Map

**NOTE:** Due to the size and orientation of the map presentation, the usual browser printing procedures may produce unexpected results. It is recommended that you use the following procedure to print your maps.

Click the  button to open the *Map Title* window. You are prompted to enter a title. Overwrite the existing title as desired. This title will appear at the top of the map printout.



- Click the  button to launch a new window containing the printable map image and the Microsoft Windows *Print* dialog box.
- Click the  button to abandon printing and return to the *Interactive Map* window.

The printable map is formatted to print in landscape orientation so you may need to adjust your printer orientation layout accordingly. Make changes as desired in the *Print* dialog box and press the *Print* button to print your map. You may close the *Print Map* window after printing is completed.

# HRSA Geospatial Data Warehouse Map Tool Help

**Map Title**

**Location Map**

Map prepared by:  
HRSA Geospatial Data Warehouse

Map created on:  
Sep 7, 2007

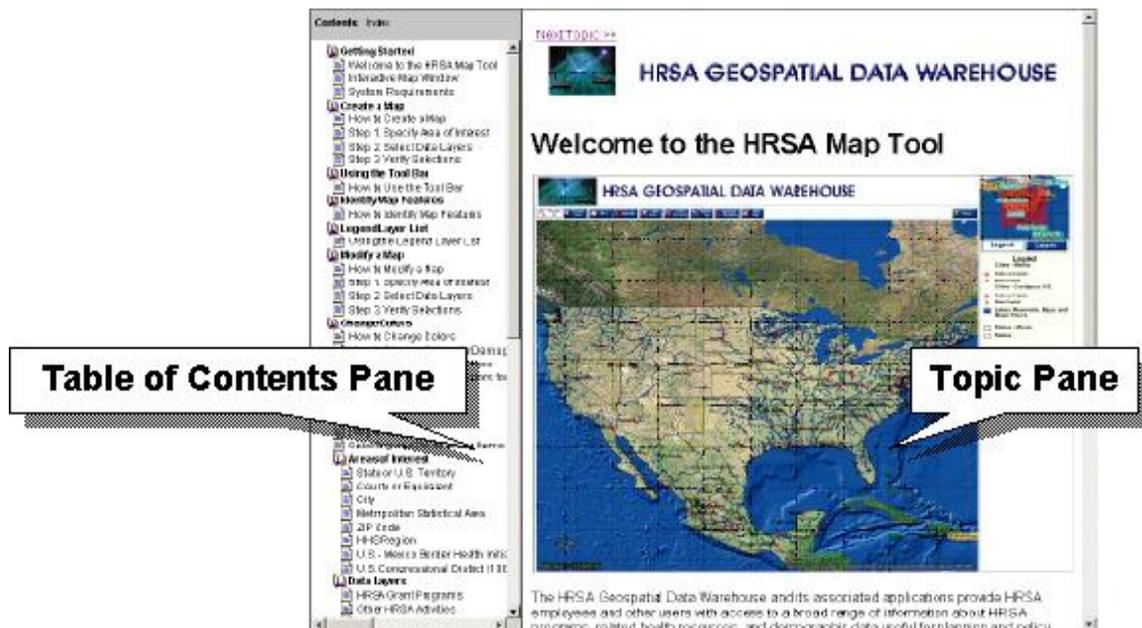
**Legend**

<ul style="list-style-type: none"> <li> Geriatric Education Centers (2003)</li> <li> Geriatric Education Centers (2004)</li> <li> Maternal and Child Health Services (2003)</li> </ul>	<ul style="list-style-type: none"> <li> Maternal and Child Health Services (2004)</li> <li> Community Health Centers Program (2003)</li> <li> Community Health Centers Program (2004)</li> </ul>	<ul style="list-style-type: none"> <li> Medicare Rural Hospital Flexibility (2003)</li> <li> Medicare Rural Hospital Flexibility (2004)</li> <li> States - Mexico</li> <li> States</li> </ul>
--	--	---

# Reference

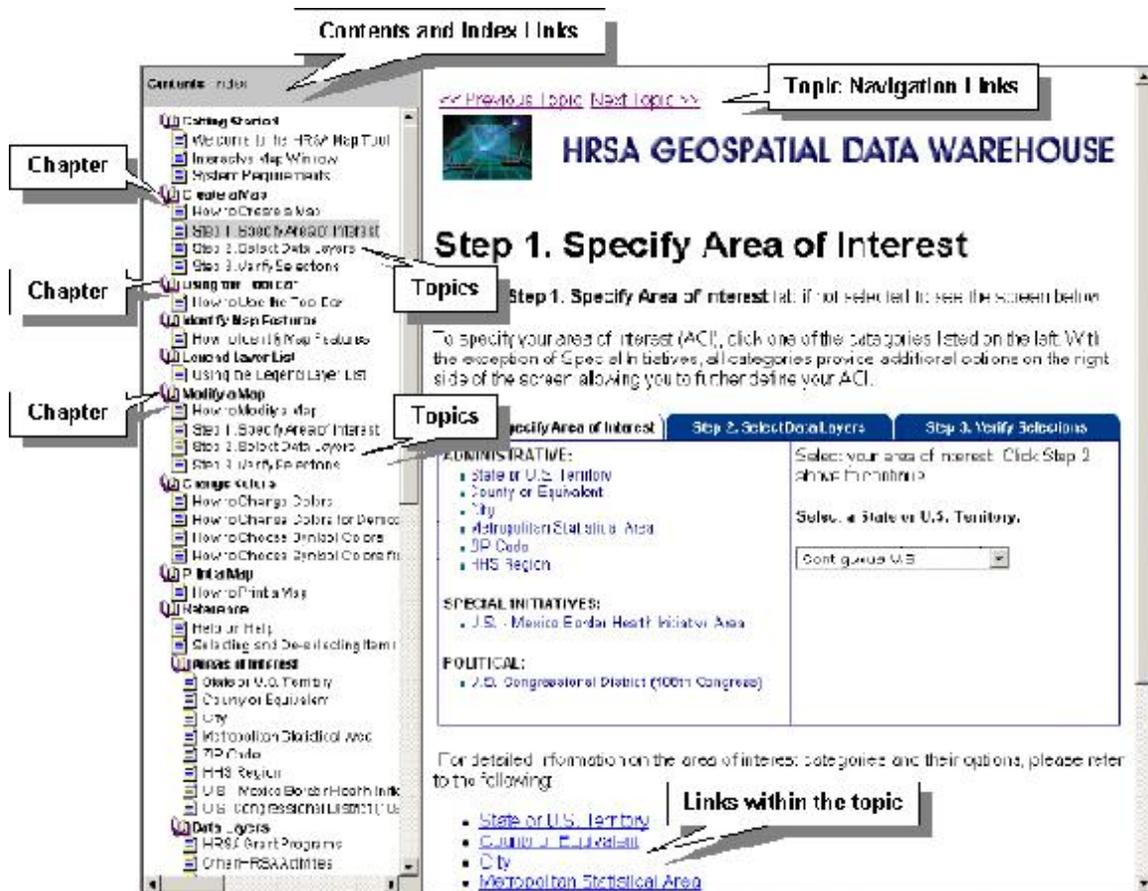
## Help on Help

The HRSA Geospatial Data Warehouse Map Tool Help is organized with a scrollable *Table of Contents* pane to the left of the pane displaying the topic currently being viewed as shown below.



## Topic Navigation

Use the *Next Topic* and/or *Previous Topic* links at the top of each topic to navigate through each topic within a chapter. Links within topics provide a direct navigation path to topics either within the current chapter or in another chapter as specified by the linked text.



## Using the Table of Contents

The *Table of Contents* pane is organized into *Chapters* each of which contain one or more *Topics* as shown above. To navigate between topics within chapters, click on the topic of interest within the desired chapter.

Use the *Contents* and *Index* links within the Table of Contents pane to toggle between the chapter/topic view and the Map Tool Help Index.

## Using the Map Tool Help Index

The index is an alphabetical subject and key word reference across all chapters within the Map Tool Help including the Frequently Asked Questions (FAQs), Glossary, and Technical Support topics. Click on any letter of the alphabet at the topic of the index page to obtain a listing of the referenced items beginning with that letter. Clicking on a referenced item causes the topic containing that item or phrase to be immediately displayed in the topic pane as shown below.



## Selecting and De-selecting Items from a List

### Selecting single items from a list:

- Click an item in the list to select it and the item becomes highlighted to show it has been selected.

### De-selecting single items from a list:

- Hold down the CTRL key and click a selected item in the list to de-select it; the highlighting is removed.

### Selecting multiple items from a list:

*Using the CTRL key:*

- Hold down the CTRL key and click the item to add it to the selected items. It will become highlighted to show it has been selected.
- Hold down the CTRL key and click the item to remove it from the selected items. The highlighting is removed.

*Using the SHIFT key:*

- Click a single item in the list to select it. Then hold down the SHIFT key and click another item. Both items and all items in between are now selected and highlighted.

### De-selecting multiple items from a list:

- Click on any item in the list to de-select all other selected items. The item you clicked is selected and highlighted. Click the selected item again to de-select it.

## Areas of Interest

### State or U.S. Territory

Select the state or U.S. territory of interest from the drop down list on the right. Each time you select a new state, the tool refreshes the lists of counties, cities, Metropolitan Statistical Areas, and Congressional Districts that exist in that state. You will see the page refresh while this is taking place - please be patient. The tool also refreshes the list of data available in Step 2, so any data layer selections you may have made are lost when you select a new state.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"> <li>■ State or U.S. Territory</li> <li>■ County or Equivalent</li> <li>■ City</li> <li>■ Metropolitan Statistical Area</li> <li>■ ZIP Code</li> <li>■ HHS Region</li> </ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"> <li>■ U.S. - Mexico Border Health Initiative Area</li> </ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"> <li>■ U.S. Congressional District (108th Congress)</li> </ul>	<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>Select a State or U.S. Territory:</b></p> <div style="border: 1px solid gray; padding: 2px;">       Contiguous U.S.       <span style="float: right;">▼</span> </div>	

## County or Equivalent

Select the state and county of interest from the drop down lists on the right. Each time you select a new state, the tool refreshes the lists of counties, cities, Metropolitan Statistical Areas, and Congressional Districts that exist in that state. You will see the page refresh while this is taking place - please be patient. The tool also refreshes the list of data available in Step 2, so any data layer selections you may have made are lost when you select a new state.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">State or U.S. Territory</a></li><li>■ <a href="#">County or Equivalent</a></li><li>■ <a href="#">City</a></li><li>■ <a href="#">Metropolitan Statistical Area</a></li><li>■ <a href="#">ZIP Code</a></li><li>■ <a href="#">HHS Region</a></li></ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">U.S. - Mexico Border Health Initiative Area</a></li></ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">U.S. Congressional District (108th Congress)</a></li></ul>	<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>1. Select a State or U.S. Territory:</b></p> <p>Alabama ▼</p> <p><b>2. Select a County or County Equivalent:</b></p> <p>Autauga ▼</p>	

## City

Select the state and city of interest from the drop down lists on the right. Optionally, you may enter a distance, in miles, to define a circular area around the selected city. The default distance is 20 miles for cities within all States and 5 miles for cities within all U.S. Territories. Use the check box next to the distance input field to display the circular area around the city on the map. This check box is off (unchecked) by default.

**NOTE:** The circle drawn on the map can not be used to accurately determine features within a distance e.g. for targeting site visits. Due to technical constraints, it provides an approximation of the entered distance as the shape of the circle is not corrected for the curvature of the earth. The error in the distance represented on the map is greater in the east-west direction than in the north-south.

Each time you select a new state, the tool refreshes the lists of counties, cities, Metropolitan Statistical Areas, and Congressional Districts that exist in that state. You will see the page refresh while this is taking place - please be patient. The tool also refreshes the list of data available in Step 2, so any data layer selections you may have made previously are lost when you select a new state.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">State or U.S. Territory</a></li> <li>■ <a href="#">County or Equivalent</a></li> <li>■ <a href="#">City</a></li> <li>■ <a href="#">Metropolitan Statistical Area</a></li> <li>■ <a href="#">ZIP Code</a></li> <li>■ <a href="#">HHS Region</a></li> </ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. - Mexico Border Health Initiative Area</a></li> </ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. Congressional District (108th Congress)</a></li> </ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>1. Select a State or U.S. Territory:</b></p> <p><input type="text" value="Alabama"/></p> <p><b>2. Select a City:</b></p> <p><input type="text" value="Abbeville"/></p> <p><b>3. Optionally Enter a Radius in Miles (1.0 - 500)</b></p> <p><input type="text" value="20"/> <input type="checkbox"/> Show circle on map</p>

## Metropolitan Statistical Area

Select the year, state and metropolitan statistical area (MSA) of interest on the right. Each time you select a new state, the tool refreshes the lists of counties, cities, MSA's, and Congressional Districts that exist in that state. You will see the page refresh while this is taking place - please be patient. The tool also refreshes the list of data available in Step 2, so any data layer selections you may have made are lost when you select a new state.

**NOTE:** MSA data for Puerto Rico is only available for the year 2000.

**NOTE:** There are no MSAs in American Samoa, Guam, The Northern Marianas Islands, the Republic of Palau, or the U.S. Virgin Islands. Therefore, these options do not appear in the *Select a State or U.S. Territory* drop down list for MSA's.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">State or U.S. Territory</a></li> <li>■ <a href="#">County or Equivalent</a></li> <li>■ <a href="#">City</a></li> <li>■ <a href="#">Metropolitan Statistical Area</a></li> <li>■ <a href="#">ZIP Code</a></li> <li>■ <a href="#">HHS Region</a></li> </ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. Mexico Border Health Initiative Area</a></li> </ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. Congressional District (108th Congress)</a></li> </ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>1. Select a year:</b> <input checked="" type="radio"/> 2002 <input type="radio"/> 2000</p> <p><b>2. Select a State or U.S. Territory:</b></p> <p><input type="text" value="Alabama"/></p> <p><b>3. Select a Metropolitan Statistical Area:</b></p> <p><input type="text" value="Anniston, AL"/></p>

## ZIP Code

Enter the 5 digit ZIP code of interest in the text box on the right. It is important to click the  button after entry to ensure that the corresponding data layers are presented in Step 2. You can not move to Step 2 until a valid 5 digit ZIP code is entered.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">State or U.S. Territory</a></li> <li>■ <a href="#">County or Equivalent</a></li> <li>■ <a href="#">City</a></li> <li>■ <a href="#">ZIP Code</a></li> <li>■ <a href="#">HHS Region</a></li> </ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. - Mexico Border Health Initiative Area</a></li> </ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">U.S. Congressional District (108th Congress)</a></li> </ul>	<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>Enter a ZIP Code then click the "Go" button to continue.</b></p> <p><input type="text"/> <input type="button" value="Go"/></p>	

## HHS Region

Select the Health and Human Services Region (HHS Region) of interest from the drop down list on the right. To get help on which states comprise each Region, click the thumbnail map to the right of the HHS Region drop down list. A new window opens showing a reference map of the HHS regions.

Each time you select a different HHS Region, the tool refreshes the list of data available in Step 2, so any data layer selections you may have made are lost.

**NOTE:** The HHS region map does not allow selections; it is displayed for reference only. You will still need to select the Region you want to as the area of interest on your map from the drop down list.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">State or U.S. Territory</a></li><li>■ <a href="#">County or Equivalent</a></li><li>■ <a href="#">City</a></li><li>■ <a href="#">Metropolitan Statistical Area</a></li><li>■ <a href="#">ZIP Code</a></li><li>■ <a href="#">HHS Region</a></li></ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">U.S. - Mexico Border Health Initiative Area</a></li></ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"><li>■ <a href="#">U.S. Congressional District (108th Congress)</a></li></ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>Select a HHS Region:</b></p> <p><input type="text" value="All HHS Regions"/></p> <p><b>(Map of HHS regions)</b></p> 

## U.S. - Mexico Border Health Initiative Area

There are no further options available for this area of interest. The message on the right side of the screen confirms your selection.

Selecting this option causes the tool to refresh the list of data available in Step 2, so any data layer selections you may have made are lost.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections
<p><b>ADMINISTRATIVE:</b></p> <ul style="list-style-type: none"> <li>■ State or U.S. Territory</li> <li>■ County or Equivalent</li> <li>■ City</li> <li>■ Metropolitan Statistical Area</li> <li>■ ZIP Code</li> <li>■ HHS Region</li> </ul> <p><b>SPECIAL INITIATIVES:</b></p> <ul style="list-style-type: none"> <li>■ U.S. - Mexico Border Health Initiative Area</li> </ul> <p><b>POLITICAL:</b></p> <ul style="list-style-type: none"> <li>■ U.S. Congressional District (108th Congress)</li> </ul>		<p>Select your area of interest. Click Step 2 above to continue.</p> <p><b>U.S. - Mexico Border Health Initiative Area is selected as your area of interest.</b></p>

## **U.S. Congressional District (108th Congress)**

Select the state and congressional district from the drop down lists on the right. Each time you select a new state, the tool refreshes the lists of counties, cities, Metropolitan Statistical Areas, and Congressional Districts that exist in that state. You will see the page refresh while this is taking place - please be patient. The tool also refreshes the list of data available in Step 2, so any data layer selections you may have made are lost when you select a new state.

**NOTE:** The Northern Marianas Islands and the Republic of Palau do not have a representative or delegate in the U.S. Congress, so those territories do not appear in the *Select a State or U.S. Territory* drop down list.

## Data Layers

### HRSA Grant Programs

Click the **HRSA Programs** tab in the middle row of tabs if not selected to see the screen below.

Click the **HRSA Grant Programs** tab on the bottom row of the tabs to select grant program information by fiscal year and HRSA Key Program Area. The list of HRSA grant programs varies depending on the selected combination of fiscal year and HRSA Key Program Area in addition to the area of interest you selected in Step 1.

## HRSA Geospatial Data Warehouse Map Tool Help

**Step 1. Specify Area of Interest**    **Step 2. Select Data Layers**    **Step 3. Verify Selections**

All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.

HRSA Programs    Health Systems    Demographics & Statistics    Administrative    Roads    Water

HRSA Grant Programs    Other HRSA Activities

Fiscal Year: 2004 (Choose one FY at a time; you may mix FYs by repeating the selection process for each FY in turn.)

Filter Grants By Key Program Area: All Key Program Areas (Selecting a key program area filters the list of grant programs based on AOI, FY, and selected key program area)

HRSA Grant Programs:

- Abstinence Special Projects
- Advanced Education Nursing Grants
- ASPH Cooperative Agreement
- Basic Nurse Education And Practice
- Basic/Core Area Health Education Centers
- Bioterrorism-Hospital Preparedness Program
- Bioterrorism-Training and Curriculum Development Program
- Brain Injury Linkages for Improved Outcomes Program

Select one or more HRSA Grant Programs, then click the "Add" button to include them in the list of selected Programs

**Selected Programs (by Key Program Area and FY)**

Add    Remove

No programs selected

Colors on the map distinguish between...    Years:     Key Program Areas:

- After selecting a fiscal year and a Key Program Area, select one or more items from the *HRSA Grant Programs* scrolling list. Click the **Add** button to add the selected programs to the list to be mapped.
- Repeat the above step to add additional grant programs for additional fiscal years and/or HRSA Key Program Areas as desired.
- To remove HRSA Grant Programs from the list to be mapped, select one or more programs to be removed from the *Selected Programs (by Key Program Area and FY)* list and click the **Remove** button.

For detailed information on using scrolling lists, see *Selecting and De-selecting Items from a List*.

- For the entire list of HRSA Grant Programs to be mapped, you may distinguish the mapped programs by instructing the Map Tool to assign colors to the Grant Programs based on Fiscal Year **or** Key Program Area using the radio buttons directly under the *Selected Programs (by Key Program Area and FY)* list. The figure below provides a visual example of the differences.

**NOTE:** At this time, you can not make a map using both color styles at the same time, you must pick one or the other.

	Colors Assigned by:	
	Fiscal Years	_____ Key Program Areas

Layers	Legend	OR	Legend
<b>On/Off</b>			
<input checked="" type="checkbox"/> Health Professions	Geriatric Education Centers (2002)		Geriatric Education Centers (2002)
<input type="checkbox"/> <input checked="" type="checkbox"/> Geriatric Education Centers (2002)	Geriatric Education Centers (2003)		Geriatric Education Centers (2003)
<input type="checkbox"/> <input checked="" type="checkbox"/> Geriatric Education Centers (2003)	Geriatric Education Centers (2004)		Geriatric Education Centers (2004)
<input type="checkbox"/> <input checked="" type="checkbox"/> Geriatric Education Centers (2004)	Maternal and Child Health Services (2002)		Maternal and Child Health Services (2002)
<input checked="" type="checkbox"/> Maternal and Child Health	Maternal and Child Health Services (2003)		Maternal and Child Health Services (2003)
<input type="checkbox"/> <input checked="" type="checkbox"/> Maternal and Child Health Services (2002)	Maternal and Child Health Services (2004)		Maternal and Child Health Services (2004)
<input type="checkbox"/> <input checked="" type="checkbox"/> Maternal and Child Health Services (2003)	Community Health Centers Program (2002)		Community Health Centers Program (2002)
<input type="checkbox"/> <input checked="" type="checkbox"/> Maternal and Child Health Services (2004)	Community Health Centers Program (2003)		Community Health Centers Program (2003)
<input checked="" type="checkbox"/> Primary Health Care	Community Health Centers Program (2004)		Community Health Centers Program (2004)
<input type="checkbox"/> <input checked="" type="checkbox"/> Community Health Centers Program (2002)	Medicare Rural Hospital Flexibility (2002)		Medicare Rural Hospital Flexibility (2002)
<input type="checkbox"/> <input checked="" type="checkbox"/> Community Health Centers Program (2003)	Medicare Rural Hospital Flexibility (2003)		Medicare Rural Hospital Flexibility (2003)
<input type="checkbox"/> <input checked="" type="checkbox"/> Community Health Centers Program (2004)	Medicare Rural Hospital Flexibility (2004)		Medicare Rural Hospital Flexibility (2004)
<input checked="" type="checkbox"/> Rural Health	Lakes, Reservoirs, Bays, and Major Rivers		Lakes, Reservoirs, Bays, and Major Rivers
<input type="checkbox"/> <input checked="" type="checkbox"/> Medicare Rural Hospital Flexibility (2002)	States - Mexico		States - Mexico
<input type="checkbox"/> <input checked="" type="checkbox"/> Medicare Rural Hospital Flexibility (2003)	States		States
<input type="checkbox"/> <input checked="" type="checkbox"/> Medicare Rural Hospital Flexibility (2004)			
<b>Refresh Map</b>			

## Other HRSA Activities

Click the **HRSA Programs** tab in the middle row of tabs if not selected to see the screen below.

Click the **Other HRSA Activities** tab on the bottom row of the tabs to select data layers categorized as other HRSA activities. The list of other HRSA activities layers will vary depending on the area of interest you selected in Step 1.

The screenshot shows a three-step process: Step 1. Specify Area of Interest, Step 2. Select Data Layers, and Step 3. Verify Selections. Below the steps, there is a row of tabs: HRSA Programs, Health Systems, Demographics & Statistics, Administrative, Roads, and Water. Below that, there is a row of sub-tabs: HRSA Grant Programs and Other HRSA Activities. The 'Other HRSA Activities' sub-tab is selected, showing a list of data layers: Health Center Cluster Sites, Health Professional Shortage Areas (Dental), Health Professional Shortage Areas (Dental) - Point, Health Professional Shortage Areas (Mental Health), and Health Professional Shortage Areas (Mental Health) - Point. A 'Reset' hyperlink is located at the bottom right of the list.

- You may select one or more items from the scrolling list. For more detailed information, see *Selecting and De-selecting Items from a List*.
- Click the *Reset* hyperlink at the bottom right of the list to de-select **all** items in that list.

## Health Systems

Click the **Health Systems** tab in the bottom row of tabs if not selected to see the screen below.

To select the desired data layer(s), click the associated check box. To de-select a selected data layer, click the associated check box again to remove the check. The specific data layers presented are determined by the area of interest selected in Step 1. You may select as many layers as you wish.

Step 1. Specify Area of Interest		Step 2. Select Data Layers		Step 3. Verify Selections	
All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.					
HRSA Programs		Health Systems		Demographics & Statistics	
Administrative		Roads		Water	
<input type="checkbox"/> Ambulatory Surgical Centers (ASC)	<input type="checkbox"/> Federally Qualified Health Centers	<input type="checkbox"/> Hospitals	<input type="checkbox"/> Nursing Facilities (NF)	<input type="checkbox"/> Skilled Nursing Facility	<input type="checkbox"/> Skilled Nursing Facility/Nursing Facility (dually)
<input type="checkbox"/> Critical Access Hospitals	<input type="checkbox"/> Hospices	<input type="checkbox"/> Intermediate Care Facility-Mentally Retarded (ICF/MR)	<input type="checkbox"/> Rural Health Clinics	<input type="checkbox"/> Skilled Nursing Facility/Nursing Facility (distinct)	

## Demographics and Statistics

Click the **Demographics & Statistics** tab in the bottom row of tabs if not selected to see the screen below.

The specific data layers presented as options are determined by the area of interest selected in Step 1, so your data layer options may change depending on the selected area of interest.

**NOTE:** The drop down lists on the *Demographics & Statistics* tab contains options that are dependent on selections made in drop down lists above them. To avoid unexpected results it is recommended that you work from top to bottom. If any of the drop down lists contain only one option, that option is automatically selected for you.

Step 1. Specify Area of Interest
Step 2. Select Data Layers
Step 3. Verify Selections

All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.

HRSA Programs
Health Systems
Demographics & Statistics
Administrative
Roads
Water

### Demographic (2000 Census) and Statistics Variable Selection

Work through the options from top to bottom, then click the 'Add' button to add a demographic theme to your map. Repeat this process for as many demographic variables as you like.

Category:

Variable:

Summary Level:

Value or Percent:

Compare To:

**Defined layers:**

(No demographic variables selected)

To create one or more demographic or statistical layers, follow the steps in this order:

## HRSA Geospatial Data Warehouse Map Tool Help

1. Select an option from the **Category** drop down list. This determines the available *Variable* options in the next step.
2. Select an option from the **Variable** drop down list.
3. Select an option from the **Summary Level** drop down list. The list of available summary levels will depending on options selected in previous steps.
4. Select an option from the **Value or Percent** drop down list.
5. Select an option from the **Compare To** drop down list.
6. Click the  button to add this layer to the scrolling list.

Repeat the steps above to add additional layers as desired.

- To remove Demographic and Statistics layers from the list to be mapped, select one or more layers to be removed from the *Defined Layers* list and click the  button.

## Administrative

Click the **Administrative** tab in the bottom row of tabs if not selected to see the screen below.

To select the desired data layer(s), click the associated check box. You may select as many layers as you wish. To de-select a selected layer, click the associated check box again to remove the check. The specific data layers presented as options are determined by the area of interest selected in Step 1, so your data layer options may change depending on the selected area of interest.

**NOTE:** The Map Tool always includes state boundaries by default; that option is not available for selection..

Step 1. Specify Area of Interest		Step 2. Select Data Layers		Step 3. Verify Selections	
All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.					
HRSA Programs		Health Systems		Demographics & Statistics	
		Administrative		Roads	
				Water	
<input type="checkbox"/> Cities	<input type="checkbox"/> Counties / County Equivalents	<input type="checkbox"/> Federal Lands	<input type="checkbox"/> HHS Regions	<input type="checkbox"/> Indian Lands and Native Entities	<input type="checkbox"/> Metropolitan Statistical Areas 2000
<input type="checkbox"/> Metropolitan Statistical Areas 2002	<input type="checkbox"/> U.S. Congressional Districts 108th Congress	<input type="checkbox"/> ZIP Codes			

## Roads

Click the **Roads** tab in the bottom row of tabs if not selected to see the screen below.

To select the desired data layer, click the associated check box. To de-select a selected data layer, click the associated check box again to remove the check.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections			
All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.					
HRSA Programs	Health Systems	Demographics & Statistics	Administrative	Roads	Water
<input type="checkbox"/> Highways					

## Water

Click the **Water** tab in the bottom row of tabs if not selected to see the screen below.

To select the desired data layer, click the associated check box. To de-select a selected data layer, click the associated check box again to remove the check.

**NOTE:** The Map Tool always includes major bodies of water by default; that option is not available for selection.

Step 1. Specify Area of Interest	Step 2. Select Data Layers	Step 3. Verify Selections			
All available data layers are listed within the following categories. Click the category tabs below for more options. Once all desired data layers are selected, click Step 3 above to proceed.					
HRSA Programs	Health Systems	Demographics & Statistics	Administrative	Roads	Water
<input type="checkbox"/> Rivers and Streams					



# Frequently Asked Questions (FAQs)

1. Why does the map look stretched?
2. Why don't I see everything I selected?
3. Why are there entries on the legend that don't show on the map?
4. What is scale dependency?
5. Why can't I change all of the map symbols?
6. When I use the Change Colors feature, I get a message that there are no layers whose colors can be changed. What does this mean?
7. Why do my selections get lost when I change my area of interest?
8. Why do the demographic layers change colors?
9. What is a color ramp?
10. Why can't I see the outlines of the demographic layers?
11. What is a feature?
12. What is a layer?
13. What is a projection?
14. Why do I have to start by selecting an area of interest?
15. Can I create my own labels or highlights on the map?
16. Can I turn the pre-defined labels off?
17. How can I get the data that goes with the map?
18. Can I save my map?
19. What determines the full extent of my map?
20. Can I change the amount by which the map zooms when I click it?
21. I tried to Identify and nothing happened - why?
22. I chose Change Colors and nothing happened - why?
23. I chose Print Map and nothing happened - why?
24. I chose Modify Map and nothing happened - why?
25. I tried to modify my map, but it didn't change. Why not?
26. Can I turn individual HRSA Grant Programs on or off on the map?
27. Why does my map keep flipping back and forth between two areas when I use the Last Extent button?
28. Why does Mexico show in the legend even though my map doesn't get anywhere near it?
29. Why do the (state, count, city) labels not show for all the states, all the time? Sometimes they are there and sometimes they are not, why?

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**Q: Why does the map look stretched?**

**A:** The map is displayed in a geographic projection. Because the world is round but the map is flat, a geographic projection distorts a three dimensional representation of the world to fit a two dimensional presentation. << Return to FAQ List >>

**Q: Why don't I see everything I selected?**

**A:** There are several possible causes for this:

- The data layers on the map may be stacked. It is possible that features in one layer are on top of features in another layer, so that layers beneath are masked. To solve this problem, either select fewer layers for your map, or use the On/Off check boxes in the *Layers List* to temporarily hide some layers.
- Layers may be de-selected in the *Layers List*. Perhaps you have already used the On/Off check boxes to temporarily hide some of the layers in your map.
- There are no features that fall within the current map display (extent) for the specific layer you have chosen.
- Not all features are displayed at every map scale, and some features are displayed differently at different scales. This is known as scale dependency. For example, when viewing a map of the contiguous 48 states, the *Rivers and Streams* layer is hidden to help reduce clutter. That layer is only displayed if you zoom in to a smaller area.

<< Return to FAQ List >>

**Q: Why are there entries on the legend that don't show on the map?**

**A:** There are several possible causes for this:

- The data layers on the map may be stacked. It is possible that features in one layer are on top of features in another layer, so that layers beneath are masked. To solve this problem, either select fewer layers for your map, or use the On/Off check boxes in the *Layers List* to temporarily hide some layers.
- Layers may be de-selected in the *Layers List*. Perhaps you have already used the On/Off feature to temporarily hide some of the layers in your map.
- There are no features that fall within the current map display (extent) for the specific layer you have chosen.
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<< Return to FAQ List >>

**Q: What is scale dependency?**

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**Q: Why can't I change all of the map symbols?**

**A:** By design, the symbols used to show HRSA grant programs, NHSC Providers, and some other data layers are pre-defined and not changeable. Symbols in layers such as states, lakes, reservoirs, bays, and major rivers are not changeable. Generally symbols that represent an area (polygons) are changeable. << Return to FAQ List >>

**Q: When I use the Change Colors feature, I get a message that there are no layers whose colors can be changed. What does this mean?**

**A:** By design, the symbols used to show HRSA grant programs, NHSC Providers, and some other data layers are pre-defined and not changeable. Symbols in layers such as states, lakes, reservoirs, bays, and major rivers are not changeable. Generally symbols that represent an area (polygons) are changeable. << Return to FAQ List >>

**Q: Why do my selections get lost when I change my area of interest?**

**A:** Each time you specify a different area of interest, the map tool creates a new list of data layers appropriate to that area and de-selects all of the previously selected layers. << Return to FAQ List >>

**Q: Why do the demographic layers change colors?**

**A:** The demographics and statistics layers are created dynamically based on your selections and are randomly assigned a color ramp when they are created. Every time you enter new selections from one of the Step 1/2/3 menus, the odds are that a different color ramp will be assigned. You may tailor the appearance of these layers using the *Change Colors* button on the *Interactive Map window Tool Bar*. << Return to FAQ List >>

**Q: What is a color ramp?**

**A:** A color ramp is group of colors chosen to represent a range of features. << Return to FAQ List >>

**Q: Why can't I see the outlines of the demographic layers?**

**A:** To convey the fact that the demographics and statistics cover broad areas, regardless of summary level, the map tool is specifically designed to hide these outlines. << Return to FAQ List >>

**Q: What is a feature?**

**A:** A feature is one of the items that makes up a data layer, such as one particular HRSA grant or a specific city, county or state. Some layers contain only one feature, while others contain many features. All of the features in a given layer represent the same type of entity. << Return to FAQ List >>

**Q: What is a data layer?**

**A:** A data layer is a collection of one or more similar features. Everything in the layer is a similar type of entity and shares a common set of characteristics. You

can think of layers as if they were sheets of transparent material that overlay the basic map and include a particular set of features such as cities, states, or counties. << Return to FAQ List >>

**Q: What is a projection?**

**A:** A projection is a means of representing a three-dimensional object such as the world on a two-dimensional surface. Because the world is round but the map is flat, a projection distorts a three dimensional representation of the world to fit a two dimensional presentation. << Return to FAQ List >>

**Q: Why do I have to start by selecting an area of interest?**

**A:** The area of interest defines what part of the world the map initially represents. It also determines what specific data layers are available in Step 2 of the map creation process. << Return to FAQ List >>

**Q: Can I create my own labels or highlights on the map?**

**A:** No. The map tool does not provide any means of custom labeling or highlighting the map. << Return to FAQ List >>

**Q: Can I turn the pre-defined labels off?**

**A:** Not at this time. Future enhancements of the map tool may incorporate this capability. << Return to FAQ List >>

**Q: How can I get the data that goes with the map?**

**A:** To get more information about a particular feature, you can use the *Identify* tool. If you want the entire set of data in the map you will need to contact the HRSA Call Center. The map tool does not provide a means of downloading data at the present time. If you want to work with data as a part of your own map, there is a Feature Service available; contact the HRSA Call Center for details. << Return to FAQ List >>

**Q: Can I save my map?**

**A:** You may save the particular map image you have created by right-clicking the image with your mouse and selecting the *Save Picture As* option. You cannot save the set of layers you have selected, the current map extent or other settings you have selected. << Return to FAQ List >>

**Q: What determines the full extent of my map?**

**A:** The full extent of your map is determined by what you selected as your initial area of interest. For any area, the full extent is the rectangle that encloses that area. The HRSA Geospatial Data Warehouse has divided the world into nine separate locales, each of which has its own particular full extent. These locales are:

- The contiguous 48 States (and the District of Columbia)
- Alaska

- Hawaii
- Puerto Rico
- U.S. Virgin Islands
- American Samoa
- Guam
- Northern Marianas Islands
- Republic of Palau

<< Return to FAQ List >>

**Q: Can I change the amount by which the map zooms when I click it?**

**A:** If you click the map to zoom in or out, the map changes scale by a predefined amount. If you want to zoom by some other amount, try dragging a rectangle on your map when either the *Zoom In* or *Zoom Out* tool is selected. The map will zoom proportionally to the ratio of the area inside your rectangle compared to the current area of the map. If you draw a small rectangle the map zooms by a large amount, because the ratio of the areas is large. If you draw a large box the ratio of the areas is smaller, so the zoom amount is smaller. << Return to FAQ List >>

**Q: I tried to Identify and nothing happened - why?**

**A:** The most likely reason for this is that your browser is set to block pop-up windows. Check your browser settings (and any add-ins that offer pop-up window blocking features) to determine whether pop-up windows are allowed. Blocked popups may also cause a Javascript error to be reported. Another possibility is that you didn't actually click a location on the map after you clicked the Identify button. Identify will provide information on the locations you click while it is selected. << Return to FAQ List >>

**Q: I chose Change Colors and nothing happened - why?**

**A:** The most likely reason for this is that your browser is set to block pop-up windows. Check your browser settings and any add-ins that offer pop-up window blocking features to determine whether pop-up windows are allowed. Blocked popups may also cause a Javascript error to be reported. << Return to FAQ List >>

**Q: I chose Print Map and nothing happened - why?**

**A:** The most likely reason for this is that your browser is set to block pop-up windows. Check your browser settings and any add-ins that offer pop-up window blocking features to determine whether pop-up windows are allowed. Blocked popups may also cause a Javascript error to be reported. << Return to FAQ List >>

**Q: I chose Modify Map and nothing happened - why?**

**A:** The most likely reason for this is that your browser is set to block pop-up windows. Check your browser settings and any add-ins that offer pop-up window blocking features to determine whether pop-up windows are allowed. Blocked popups may also cause a Javascript error to be reported. << Return to FAQ List >>

**Q: I tried to modify my map, but it didn't change. Why not?**

**A:** There are a few possible causes for this:

- You closed the *Modify Map* window using the built-in Windows *Close* button (the black *X* on the gray button at the extreme upper right hand corner of the *Modify Map* window), rather than the *Make Map* button.
- You closed the *Modify Map* window using the *Cancel* button, which cancels any changes you were making. You must click the *Make Map* button in order to apply your changes to the map.
- You didn't make any changes to the map configuration while you had the *Modify Map* window open.
- The *Modify Map* feature is tied to the map when you open the *Modify Map* window. If you click on the map while the *Modify Map* window is open, the map redraws itself and the connection between the map and the *Modify Map* window is lost. You will need to close and re-open the *Modify Map* window.

<< Return to FAQ List >>

**Q: Can I turn individual HRSA Grant Programs on or off on the map?**

**A:** Yes individual grant programs can be turned on/off using the Layer List. HRSA Grant Programs are grouped by HRSA Key Program Area; if a key program area *On/Off* box is unchecked, no HRSA grant programs within that key program area are displayed on the map regardless of whether individual HRSA Grant Program layers within the group are checked. << Return to FAQ List >>

**Q: Why does my map keep flipping back and forth between two areas when I use the Last Extent button?**

**A:** The *Last Extent* button remembers the most recent extent of the map. When you click the *Last Extent* button, that extent is retrieved and the current map extent becomes the last extent. In other words, you are swapping between two extents. This feature is not like the Windows *Undo* button which keeps a history of your actions and lets you step back through them one at a time.

<< Return to FAQ List >>

**Q: Why does Mexico show in the legend even though my map doesn't get anywhere near it?**

**A:** The legend includes any layer in the map whose bounding rectangle (the smallest box that can be drawn that entirely contains all the features in a layer) intersects the current map extent. Since many layers have only a few features that are located near the edges of their bounding rectangle, it often happens that the map extent overlaps a layer's bounding rectangle, but in a place where the layer has no features. << Return to FAQ List >>

**Q: Why do the (state, count, city) labels not show for all the states, all the time? Sometimes they are there and sometimes they are not, why?**

**A:** The Map Tool places state name labels after all the map drawing has been completed. If a clear spot big enough to hold a state label can not be found, the

## Frequently Asked Questions (FAQs)

tool leaves the label off the final map. This way labels do not obscure mapped features or one another. << Return to FAQ List >>



# Technical Support

Technical support for the Map Tool and the HRSA Geospatial Data Warehouse is available from the **HRSA Call Center**.

HRSA Call Center  
12530 Parklawn Drive  
Suite 350  
Rockville, MD 20852  
Phone: (877) GO4-HRSA  
(1-877-464-4772) or  
(301) 998-7373  
Fax: (301) 998-7377  
E-mail: [CallCenter@HRSA.Gov](mailto:CallCenter@HRSA.Gov)

Hours of Operation: Monday through Friday 9am to 5:30pm EST.



# Glossary

**AOI** - See *area of interest*.

**area of interest** - The geographic or administrative area to be used for creating the map display. Selecting an area of interest (AOI) determines available data layers to be displayed on your map.

**bounding box** - See *bounding rectangle*.

**bounding rectangle** - The smallest box that can be drawn that contains all the features in a layer. It is defined by the lines that contain the northernmost, southernmost, easternmost, and westernmost points of the features in the layer.

**contiguous** - Literally adjacent, touching. In the context of digital mapping, it implies a connected polygonal entity.

**create a map** - The process of specifying an area of interest, selecting data layers, and verifying selections in order to generate a map for display.

**data layer** - a subdivision of a CAD or GIS database containing related data. Layers can be visualized as transparencies which allow the user to view and analyze information selectively by theme.

**database** - A collection of data organized according to a conceptual structure describing the characteristics of the data and the relationships among their corresponding entities. For example, a GIS database includes data about the position and characteristics of geographical features.

**drag** - The process of holding the left mouse button down while moving the mouse from one point to another. In the context of the HRSA Geospatial Data Warehouse Map Tool, you may "drag" a rectangle on the map to zoom the map in or out. See *zoom*.

**extent** - The area covered by the map at any given moment.

**feature** - A set of points, lines or polygons in a spatial database that represent a real-world entity. Features are grouped together into layers. The terms feature and object are often used synonymously.

**GIS** - Geographic Information System. A collection of hardware, software, geographic data, and personnel designed to capture, store, update, manipulate, analyze, and display geographically referenced information.

## HRSA Geospatial Data Warehouse Map Tool Help

**HGDW** - HRSA Geospatial Data Warehouse.

**HHS** - United States Department of Health and Human Services.

**HRSA** - Health Resources and Services Administration.

**identify** - The process of clicking on the map to get more information about the feature(s) in a particular location. In the HRSA Geospatial Data Warehouse Map Tool this process produces a new window that lists the characteristics of all features at the point where you clicked.

**layer** - a subdivision of a CAD or GIS database containing related data. Layers can be visualized as transparencies which allow the user to view and analyze information selectively by theme.

**legend** - A display that shows the symbols used on the map with a description of what the symbols represent, provided as an aid to the user in interpreting and understanding what the map represents.

**line** - A geometric figure that is a straight arrangement of points. In the HRSA Geospatial Data Warehouse, lines are used to depict things such boundaries, roads and streams.

**locator map** - A small map that shows the general location on the surface of the earth of a larger, more detailed map. Sometimes referred to as an overview map.

**map extent** - See *extent*.

**modify a map** - Changing the area of interest, data layers selections or other properties of the map display.

**NHSC** - National Health Service Corps

**overview map** - See *locator map*.

**polygon** - A closed shape that is made up of line segments. In the HRSA Geospatial Data Warehouse, polygons are used to depict things such as states, counties and lakes.

**pan** - To move the viewing window up, down, or sideways to display areas in a geographic dataset which, at the current viewing scale, lie outside the window. The HRSA Geospatial Data Warehouse Map Tool allows you to simultaneously pan the map area and zoom either in or out.

**point** - A specific location on the map. In the HRSA Geospatial Data Warehouse, points are used to represent HRSA grants, NHSC provider locations, other health care facilities, and other types of features.

**projection** - A means of depicting a three-dimensional object such as the world on a two-dimensional surface. All projections introduce some form of distortion to the resulting image.

**scale** - the relationship between distance on a map and the corresponding distance on the earth's surface. Map scale is often recorded as a representative fraction such as 1:1,000,000 (1 unit on the map represents a million units on the earth's surface) or 1:24,000 (1 unit on the map represents 24,000 units on the earth's surface). The terms "large" and "small" refer to the relative magnitude of the representative fraction. Since 1/1,000,000 is a smaller fraction than 1/24,000, the former is said to be a smaller scale. Small scales are often used to map large areas because each map unit covers a larger earth distance. Large-scale maps are employed for detailed maps of smaller areas.

**spatial data** - Any information about the location and shape of, and relationships among, geographic features. This includes remotely sensed data as well as map data.

**Step 1/2/3** - The process of specifying an area of interest, selecting data layers, and verifying selections in order to create or modify a map. The Step 1/2/3 menus are available when you start the Map Tool and whenever you click the Modify Map button from the Interactive Map window.

**symbol** - A means of displaying a feature on a map. Symbols can represent any kind of feature (point, line, or polygon) and may be used to convey information about the feature they represent. For example, the symbol's size and/or color can change from one feature to another within a layer to portray a difference between the features. Point symbols appear as discrete objects that have a specific size, color, and shape; line symbols may be comprised of one or more segments that connect multiple points that are somehow related (e.g. all of the points that make up a road or stream as it changes direction); polygon symbols are composed of some combination of an outline (or boundary) and a fill style or pattern. Polygon symbols are not required to have both an outline and fill, but they must have one or the other.

**symbolology** - The collection of symbols used to portray features in a map. See *symbol*.

**zoom** - A software or hardware function that allows for the display of progressively smaller (zoom in) or larger (zoom out) areas of an image on an interactive display. The HRSA Geospatial Data Warehouse Map Tool allows you to simultaneously pan the map area and zoom either in or out. See *pan*.



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