

# User Guide for Interactive Report I

## 2010-11 Influenza Vaccination Coverage

The **interactive report I** displays the 2010-11 monthly cumulative influenza vaccination coverage estimates based on self-reported influenza vaccinations from the Behavioral Risk Factor Surveillance System (BRFSS) and National Immunizations Survey (NIS). See *Methods and Limitation Companion Report* on the [influenza vaccination coverage](#) webpage for further data analysis description.

### Contents

Map Selection .....	2
Map Layers .....	3
Map Filter .....	3
Interactive Features .....	5
Map and Charts .....	5
Coverage Tables .....	6
Legend .....	7
Zoom .....	7
Map Animation .....	8
Comparisons .....	9
Compared to Other States .....	9
Compared to United States or HHS Regions .....	10
Legend Settings and Personalization .....	11
Report Options .....	13
Footnotes .....	13
Print Menu .....	14
Export Menu .....	15
Other Features .....	15
Help Guide .....	16

## Map Selection

- The **interactive report I** initially displays cumulative influenza vaccination coverage estimates for persons 6 months and over for the latest month of available data. The map of the United States shows the states demarcated by their designated Department of Health and Human Services (HHS) Region.

**Interim Results: Monthly cumulative influenza vaccination coverage for 2010-11 season\*  
–United States, (†) August through November 2010**

Selected Map: All Persons >> Aged ≥6 mos >> Coverage through Nov

**Map Selection** | **Map Filter** | **Clear Selection** | **Help Guide**

**Play Time Animation** | Aug | Sep | Oct | Nov

**Coverage by Month**

**Legend**

- 0.0 - 9.9
- 10.0 - 19.9
- 20.0 - 29.9
- 30.0 - 39.9
- 40.0 - 49.9
- 50.0 - 59.9
- 60.0 - 69.9
- 70.0 - 79.9
- 80.0 - 89.9
- 90.0 - 100.0
- ND^

HHS Regions

**Legend Settings**  
**Footnotes**  
**Print Menu**  
**Export Menu**

**State Coverage Ranking**

**Switch National to State Tables**

**National/Regional Coverage Estimates**

U.S./HHS Region	n	% (±)	CI (†)
United States	180,965	37.7	(±0.7)
Region 1	21,399	46.0	(±1.9)
Region 2	10,306	39.7	(±2.5)
Region 3	16,647	43.2	(±2.2)
Region 4	34,109	36.3	(±1.4)
Region 5	21,864	38.1	(±1.7)
Region 6	13,281	37.8	(±2.9)
Region 7	15,862	42.2	(±2.4)
Region 8	20,054	38.4	(±1.8)

Through Nov

- To view influenza vaccination coverage for other groups click on the **Map Selection** button.

**Map Selection** | **Map Filter** | **Clear Selection**

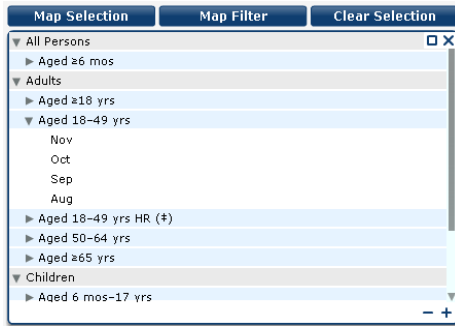
Click to select data shown in map and figures

- The **Map Selection** menu lists three categories: all persons, adults, and children. The menu displays the months of available data for the different age groups within each of the categories. Select the desired age group and month of vaccination to view map (to expand or collapse the list of options click on the small grey triangles).

**Map Selection** | **Map Filter** | **Clear Selection**

▸ All Persons  
 ▸ Adults  
 ▸ Children

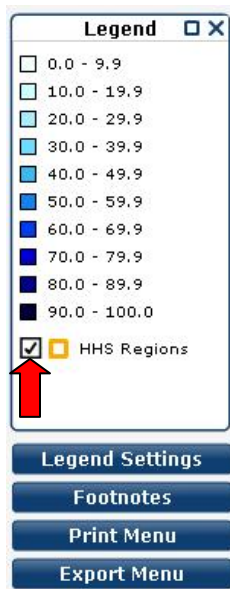
▾ All Persons  
 ▸ Aged ≥6 mos  
 ▾ Adults  
 ▸ Aged ≥18 yrs  
 ▸ Aged 18-49 yrs  
 ▸ Aged 18-49 yrs HR (†)  
 ▸ Aged 50-64 yrs  
 ▸ Aged ≥65 yrs  
 ▾ Children  
 ▸ Aged 6 mos-17 yrs  
 ▸ Aged 6 mos-4 yrs  
 ▸ Aged 5-12 yrs  
 ▸ Aged 13-17 yrs



- Click '+' button in the **bottom right corner** of the **Map Selection** window to expand all categories, age groups, and months of data.
- Click '-' button in the **bottom right corner** of the **Map Selection** window to collapse all categories, age groups, and months of data.
- Click 'x' button in the **top right corner** of the **Map Selection** window to close the selection menu.

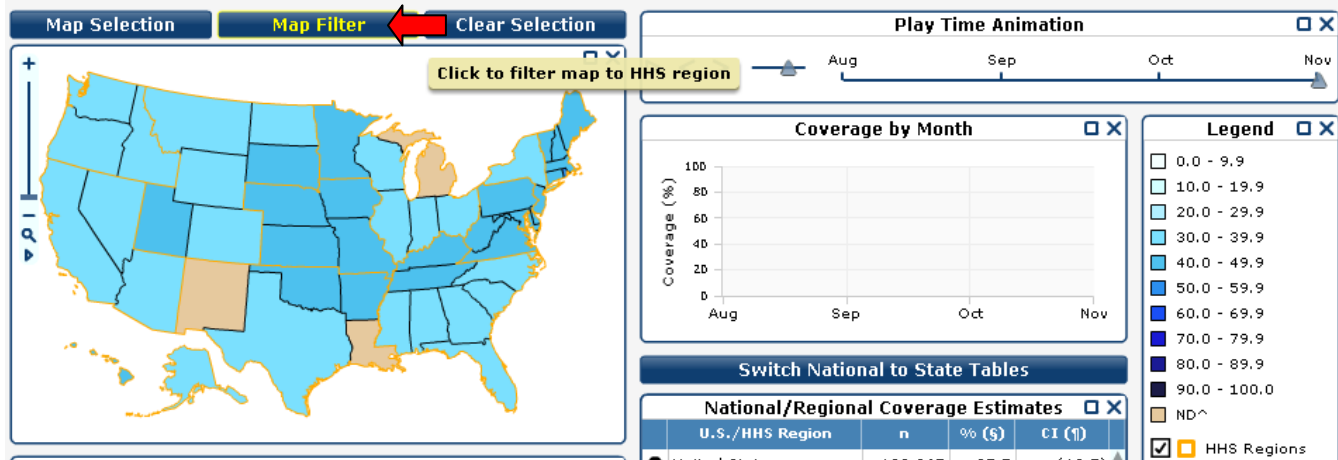
## Map Layers

- HHS Regions are outlined in the United States map by default. Click the check box in the **legend** box to toggle the HHS Region outlines on / off.

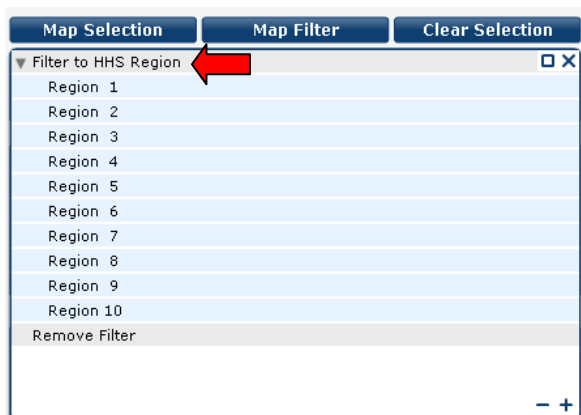


## Map Filter

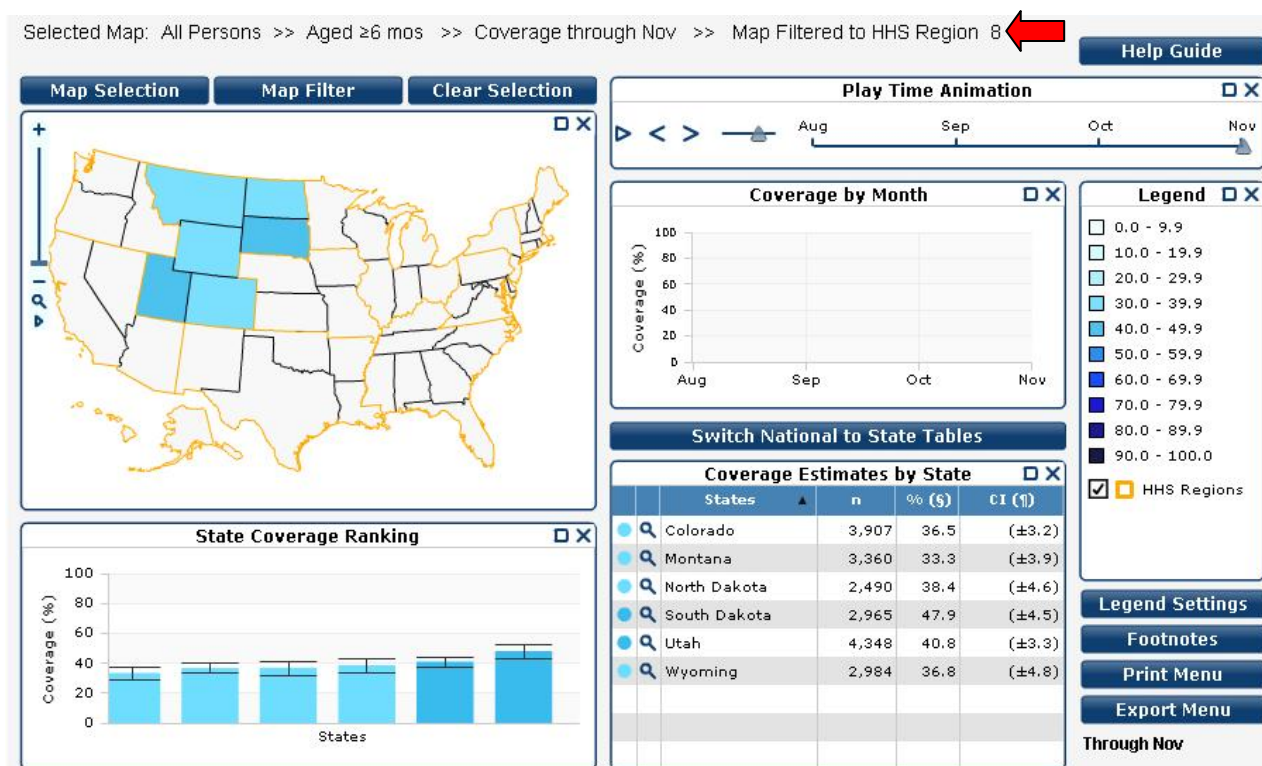
- The map can be filtered by HHS regions. To select a region click on the **Map Filter** button.



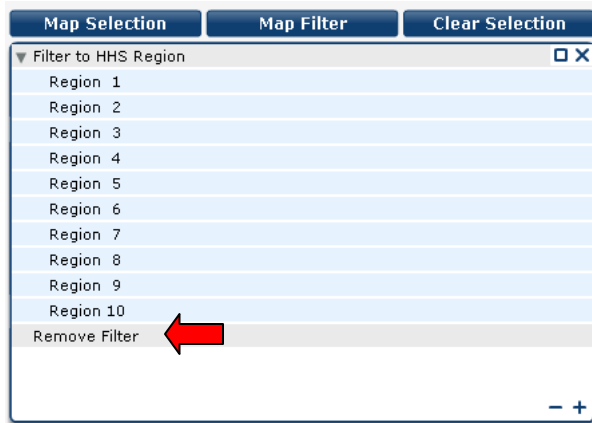
- Select the desired HHS region from the **Map Filter** menu.



- Once the desired region is selected, only the states within the specific region remain highlighted in the map accordingly. The **State Coverage Ranking** bar chart and the **Coverage Estimates by State** table will also only display states within the selected HHS region.



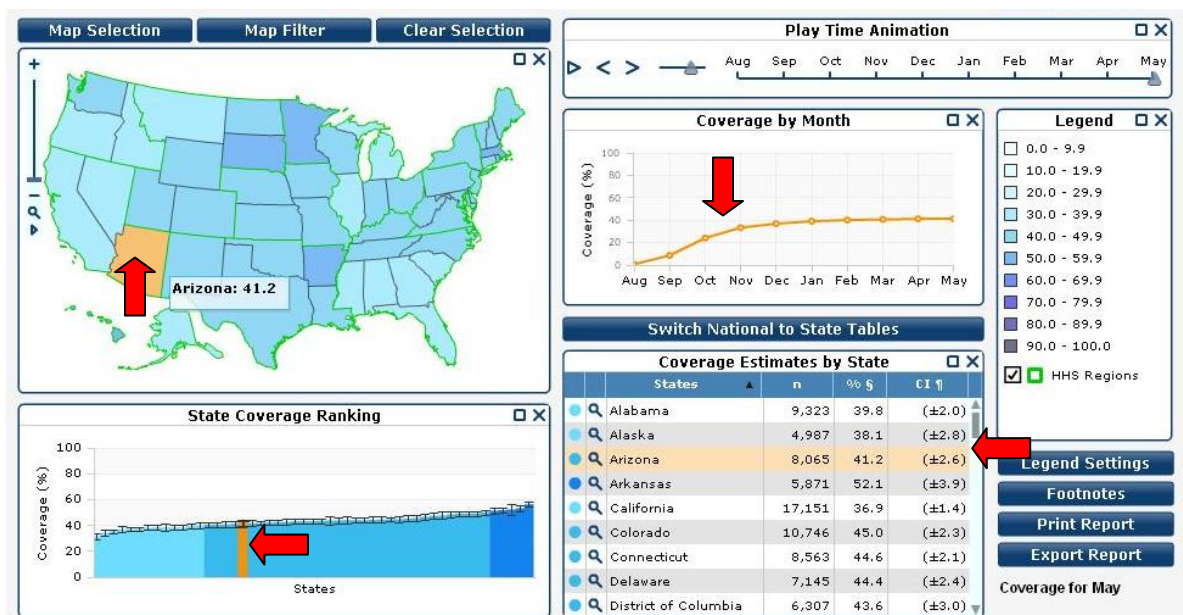
- To clear the filtered region and return the map and other figures to the original look, go back to the **Map Filter** menu and select *Remove Filter*.



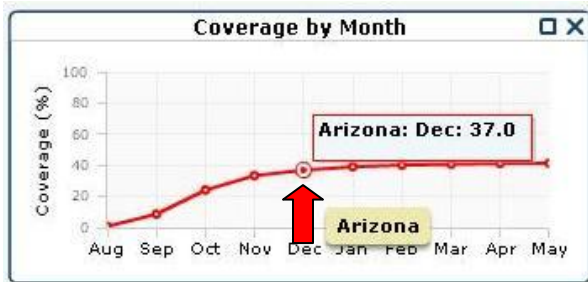
## Interactive Features

### Map and Charts

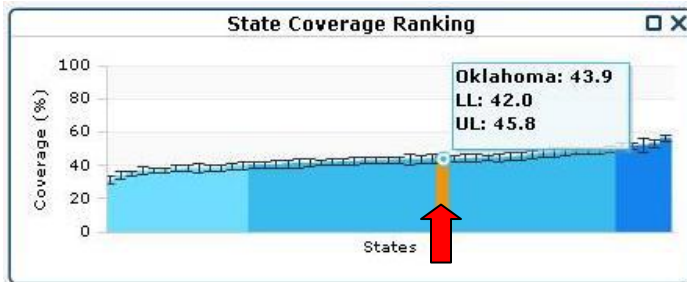
- Once the desired age group and month of vaccination are selected, the map is updated automatically. States are shaded based on their coverage estimates, as specified by the **map legend**. The shaded color of the selected state in the U.S. map corresponds to the color in the **State Coverage Ranking bar chart**, which includes error bars representing the 95% confidence intervals of each state's vaccination coverage estimate.
- To display the name and corresponding vaccination coverage estimate for any state, hold the mouse pointer over the state in the map (without clicking it to select). The selected state will be highlighted in the **map**, the **State Coverage Ranking bar chart** and the **Coverage Estimates by State table**. For the highlighted state, a trend of cumulative vaccination by month also appears in **Coverage by Month line graph**.



- The **Coverage by Month line graph** shows the vaccination cumulative coverage by month through the influenza season (from August through the latest month of data). To view the vaccination coverage trend for a particular state or region, hold the mouse over the selected state or region in the **map**, the **State Coverage Ranking bar chart** or the **Coverage Estimates tables**.
- Click a state in the map, data table or bar chart to select it and freeze the trend in the **Coverage by Month line graph**. Selecting a state will shade it red. Hold the mouse pointer over the points in the **Coverage by Month line graph** to display the month and coverage level of the selected state.



- The **State Coverage Ranking bar chart** displays error bars representing the lower limit (LL) and upper limit (UL) of the 95% confidence intervals associated with the vaccination coverage estimate for the featured month, age-group and state. Hold the mouse pointer over any of the bars in the **State Coverage Ranking bar chart** to display the state name, its' influenza vaccination coverage estimate and 95% LL and UL confidence intervals.



- To clear any selections click on the **Clear Selection** button.

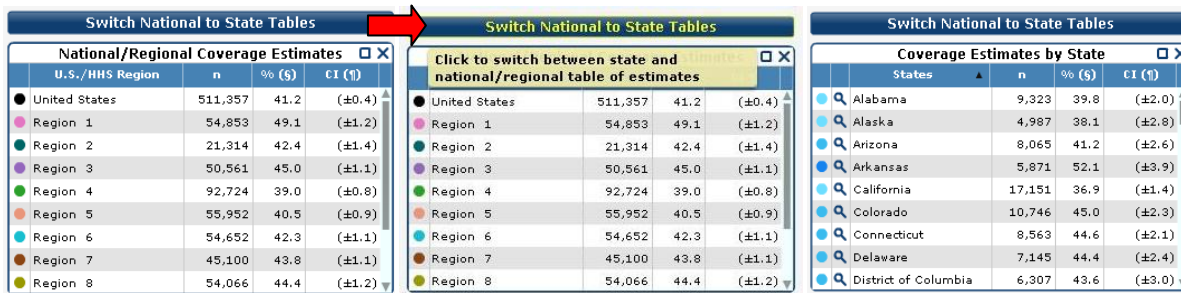


- See [Comparisons](#) for further guidance on selecting multiple geographic areas and producing comparisons between geographical areas in **Coverage by Month line graph** and **State Coverage Ranking bar chart**.

## Coverage Tables

- To move between the **National/Regional Coverage Estimates table** and **Coverage Estimates by State table**, click the button **Switch National to State Tables**. Both tables provide the name of the geographical area (state or region), the sample size, the coverage estimate and the 95% confidence interval. Both tables can be sorted by each of these columns.

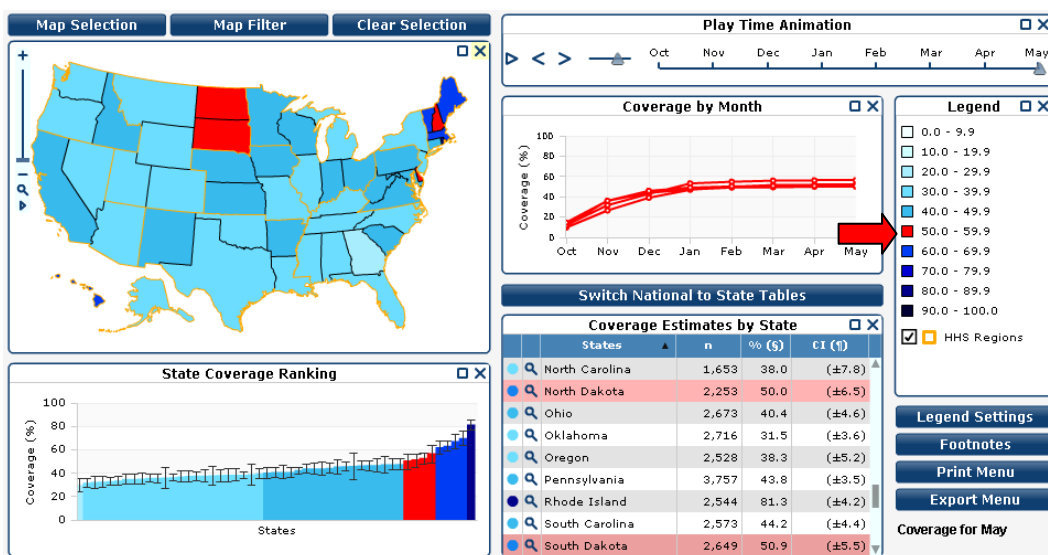




- The **Coverage Estimates by State** table also provides the legend color for each state corresponding to the state's color in the map, and a zoom-to-state feature represented by the magnifying glass. The **National/Regional Coverage Estimates** table colors correspond to the colors of the lines shown in the **Coverage by Month** line graph and **State Coverage Ranking** bar chart.

## Legend

- States can also be selected through the legend. Hold your mouse pointer over a class in the legend to highlight the states that fall into that class. Click the square to the left of the desired class to select the states that fall within that class. The selection will appear in red in the map, the bar chart, the line graph, and the coverage table.

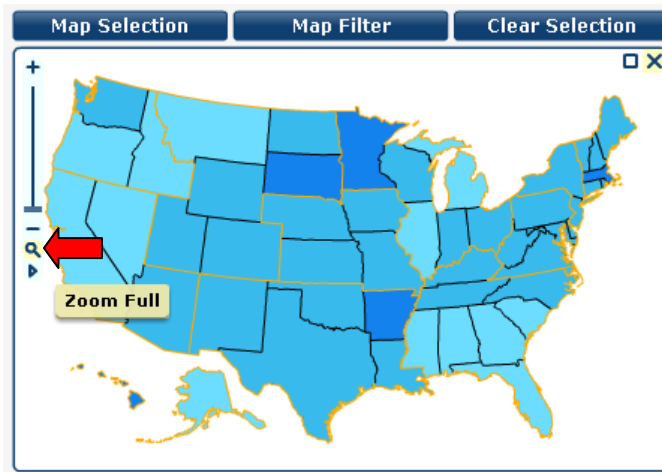


## Zoom

- Use the slider bar on the left of the map to zoom in and out. You can also use the scroll wheel on your mouse to zoom in and out of any section of the map.
- To zoom to a specific state, go to the **Coverage Estimates by State** table and select the zoom-to-state feature (signified by a magnifying glass) of the desired state.



- Click the zoom full icon (bottom magnifying glass in the map window) to return the map back to full view.



## Map Animation

- The **time animation** feature can be used to view changes in vaccination coverage by state over time. Click on the second grey-shaded triangle and move to change the month that is currently displayed.



- Click the "play" (clear triangle) button to automatically display coverage through all the available months for the selected age group. The animation may be paused by clicking on the pause button (the two parallel vertical dashes; available after "play" has been selected). The left and right arrow buttons may also be used to manually navigate through each month.

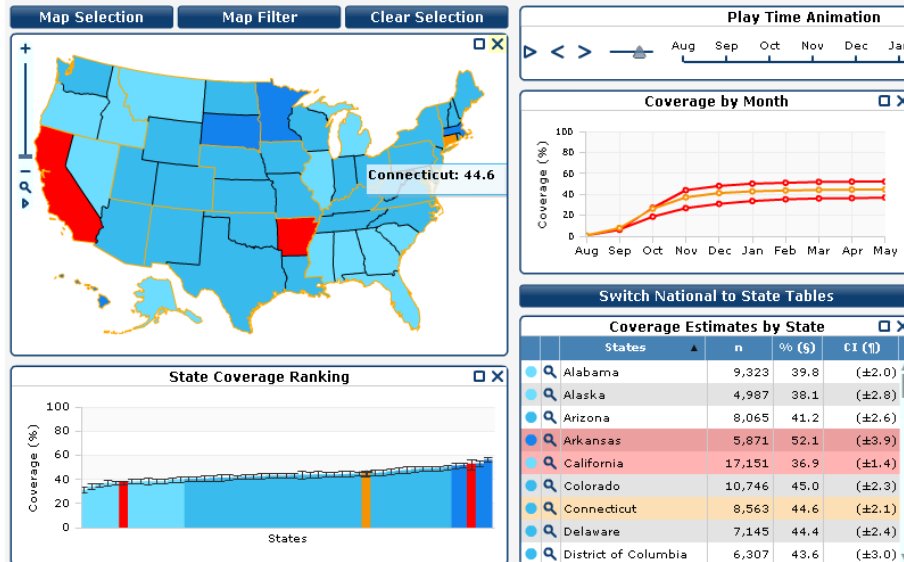




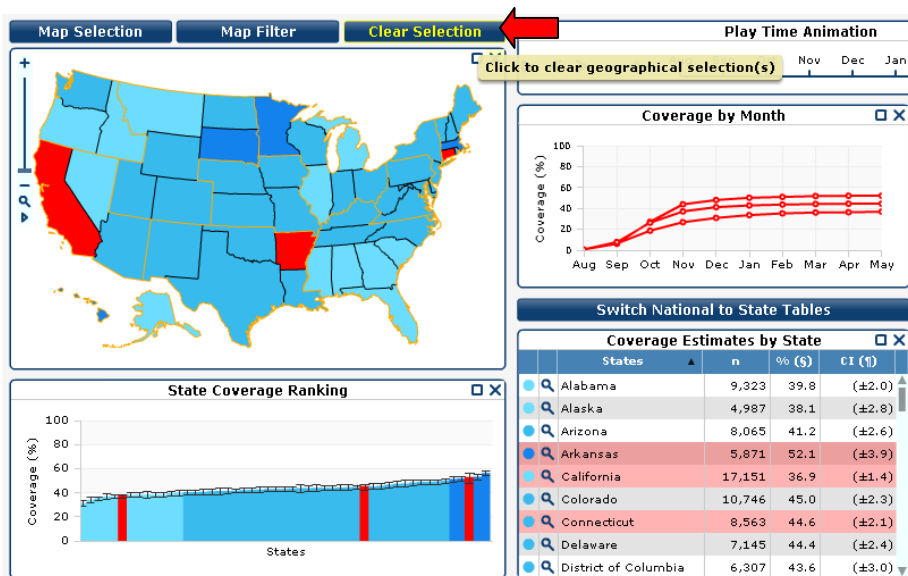
## Comparisons

### Compared to Other States

- The user can start a comparison by selecting a state in the map, in the bar chart or in the state coverage table. To select multiple states, hold the 'Ctrl' key or hold the 'Shift' key to select a range of states. To select an extended area, use the 'Ctrl' key and click and drag a box in the map. The states within the box drawn will become selected. Selected state(s) will appear shaded red in the map, the bar chart, the time series line graph, and the state coverage table. Holding the 'Ctrl' key and clicking on a selected state allows you to deselect it.



- The **Coverage by Month** time series chart displays trends of influenza vaccination coverage and allows comparison of vaccination coverage by month for selected states.
  - A note of caution: because all the states selected will appear red in the line graph, please limit comparisons to a maximum of three states.
- To clear any comparisons click on the **Clear Selection** button.

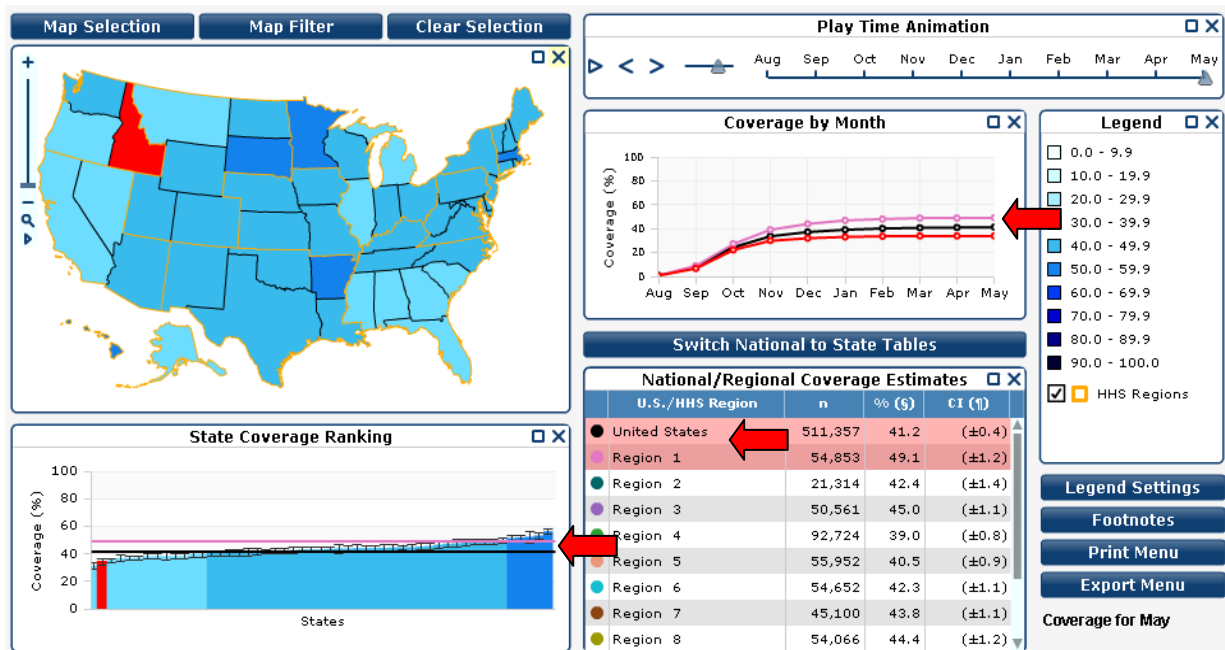


## Compared to United States or HHS Regions

- To view and compare to national and regional influenza vaccination coverage estimates select the desired area(s) from the **National/Regional Coverage Estimates** table. Again, to move between national and state influenza vaccination coverage tables, click the **Switch National to State Tables** button.

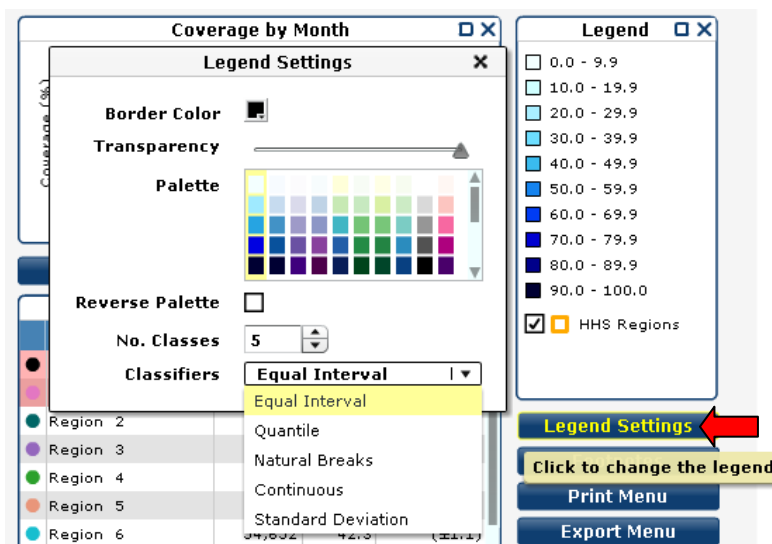


- On the **State Coverage Ranking** bar chart, national and regional coverage estimates are shown using a horizontal line across the bars. At the same time, a trend line will appear in the **Coverage by Month** graph. The colors of both lines correspond with the color of the solid circle next to the selected US/HHS region in the **National/Regional Coverage Estimates** table.



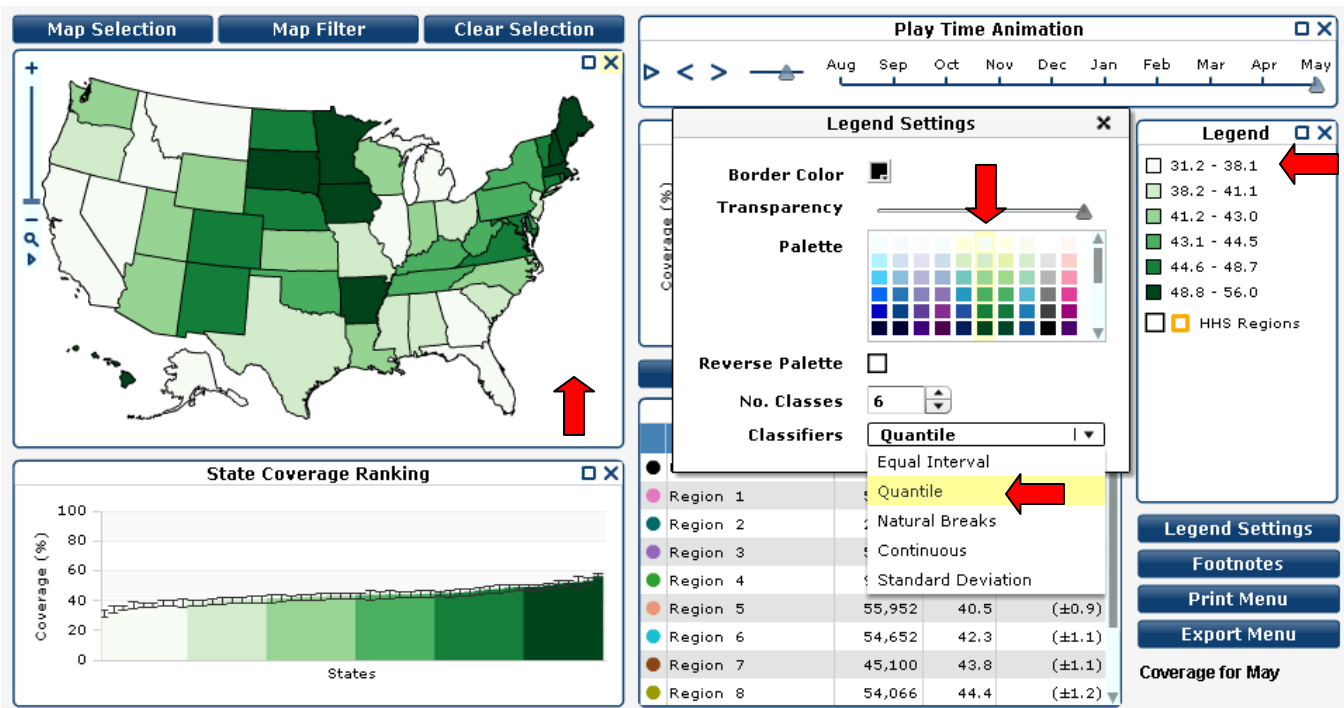
## Legend Settings and Personalization

- The legend is displayed in the **Legend** box and can be changed as needed by clicking on the **Legend Settings** button below. This will open the **Legend Settings** dialogue box.



- The legend and influenza vaccination coverage classes are initially set to the default color. Such things as border color, palette, number of classes and classifiers can all be designated by the user for personal applications. The following items are available in the **Legend Settings**:
  - Border color:** The color of the border around each state on the map.
  - Transparency:** By sliding the bar, the transparency of the states in the map can be lighter or darker.
  - Palette:** The color palette used in the map can be changed by selecting other available palettes.
  - Reverse Palette:** By checking this box you can reverse the color palette (in example, change light-to-dark to dark-to-light and vice versa).

- **No. Classes:** You can increase or decrease the number of classes by clicking the **increase** or **decrease** buttons (labeled with black arrows).
- **Classifiers:** Select a classifier from the drop-down. This will decide how the ranges are calculated.
  - **Equal Interval:** The intervals between class breaks are equal. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes. The advantage of the equal-interval classification is that many users find it simple to understand. However, a disadvantage is that only the minimum and maximum data values are used when determining class breaks for the intervals.
  - **Quantile:** Each class in the legend contains an approximately equal number of states. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes (tertiles, quartiles, quintiles...). Two advantages of the quantile classification are that it is appropriate for ordinal data (as data are rank-ordered) and that it can help make map comparisons (assuming that the same number of classifications is used for all maps). A disadvantage of the quantile classification is that it does not consider how the data are distributed. If the data distribution is highly skewed, data observations will be forced into the same class (either the lowest or highest) where this may not be appropriate. As a result, the quantile classification may give a false impression that there is a relatively normal data distribution.
  - **Natural Breaks:** This classification method is also known as Optimal Breaks and Jenks' Method. Class breaks are calculated automatically based on the selected data and will update if you change the number of classes. Data are assigned to classes based upon their position along the data distribution relative to all other data values. An iterative algorithm is used to assign values to classes such that the variances within all classes are minimized whereas the variances among classes are maximized. The advantage of this classification is that the data distribution is explicitly considered for determining class breaks. However, the disadvantage is that users may not understand the classification method used and that class breaks may not be immediately intuitive.
  - **Continuous:** Each geographic feature is shaded differently using a continuous scale. This legend type is useful for identifying extremely high or low values.
  - **Standard Deviation:** Class breaks reflect the number of standard deviations from the data average (or mean). States are classified according to how many standard deviations above or below the average their coverage estimate value falls. The number of classes for this legend type cannot be changed.

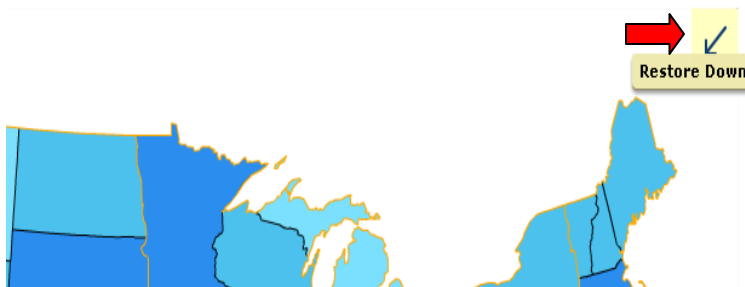


## Report Options

- Click the blue square in the top right corner of **any box** to maximize.



- Click the blue arrow in the top right corner of the **maximized box** to restore the box down.



## Footnotes

- Footnotes for the symbols shown in the titles, table headings, and data values are displayed by selecting the **Footnotes** button, which opens a window shown as a pop-up notepad. To close the window, either select the **Footnotes** button again or select the **X** in the top right corner.

4	42.4	(±1.4)	Legend Settings
1	45.0	(±1.1)	Footnotes
4	39.0	(±0.8)	Click to view additional information
2	40.5		Export Report
2	42.3	(±1.1)	
0	43.8	(±1.1)	

Coverage for May

Map Selection | Map Filter | Clear Selection

State Coverage Ranking

Play Time Animation

Aug | Sep | Oct | Nov

**Footnotes**

- \* Coverage estimates are for persons interviewed September through December 2010 who reported being vaccinated August through November 2010.
- † Excludes U.S. territories
- ‡ Selected high-risk conditions are asthma, diabetes, and heart disease
- § Month of vaccination was imputed for respondents whose database record was blank for the month field. Percentages are weighted to the U.S. population.
- ¶ 95% confidence interval
- ^ Data for interview months through December were not available.
- € Estimates not reliable because sample size is <30.
- £ Estimates not reliable because relative standard error is >0.3.
- ¥ Estimates might be unreliable because confidence interval half-width is >10.

Region 1	21,399	46.0	(±1.9)
Region 2	10,306	39.7	(±2.5)
Region 3	16,647	43.2	(±2.2)
Region 4	34,109	36.3	(±1.4)
Region 5	21,864	38.1	(±1.7)
Region 6	13,281	37.8	(±2.9)
Region 7	15,862	42.2	(±2.4)
Region 8	20,054	38.4	(±1.8)

Legend Settings  
Footnotes  
Print Menu  
Export Menu

Through Nov

## Print Menu

- Printing options for the full **interactive report** or individual components of the report are available by selecting the **Print Menu** button, which opens the menu as a pop-up window.

**Print Options** [X]

**Print full screen** [v] ←

Legend

Coverage Estimates by State

Coverage by Month

State Coverage Ranking

U.S. Map

Resize to fit page

Show Buttons

Show Images

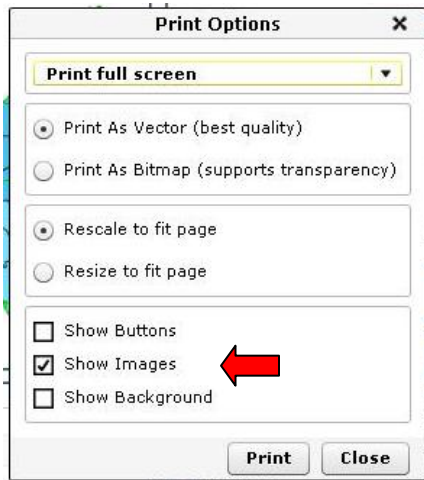
Show Background

Print Close

- There are two print modes available: 'Rescale to fit page' or 'Resize to fit page'.
  - 'Rescale to fit page' prints out exactly what is seen on the screen, rescaled to fit the paper size. The quality of the output (especially text) might not be quite as crisp as for the resize option.
  - 'Resize to fit page' internally resizes all components individually to fit to the paper size. The output will be crisp but text in the report may appear larger than on the screen. Different chart axis labels and scroll bars may appear although they are not present on the screen.

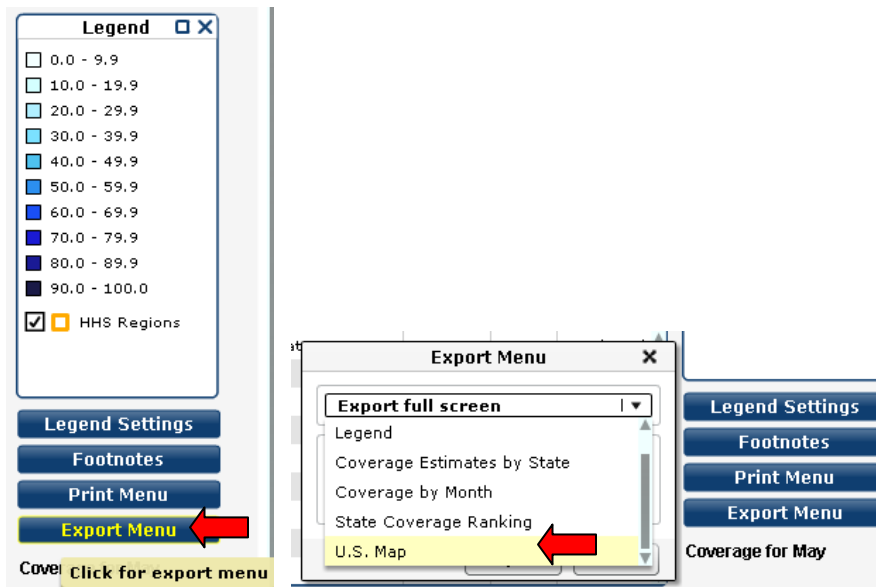


- There is also an option to have the buttons within the **interactive report** shown in the printout. The images and the background may be selected to appear or disappear in the printout by checking or unchecking the respective boxes.



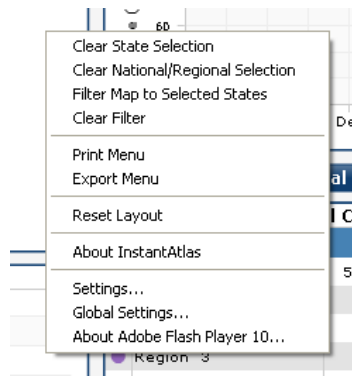
## Export Menu

- The **Export Menu** button allows exporting of the full **interactive report** or individual components of the report in either JPEG or PNG format. **Export Menu** is displayed in a pop-up window.



## Other Features

- Many of the **interactive report** options are also available with the right click mouse button.



- A right click anywhere in the active report will display the following menu options.
  - **Clear State Selection:** This option deselects all states currently selected.
  - **Clear National/Regional Selection:** This option deselects all regional or national comparisons.
  - **Filter Map to Selected States:** This option creates a filter from the states that are currently selected.
  - **Clear Filter:** This option clears all filters that applied.
  - **Print Menu:** See [Print Menu](#) for further information.
  - **Export Menu:** See [Export Menu](#) for further information.
  - **Reset Layout:** This option returns the page layout to the original layout of the **interactive report**.
  - **About InstantAtlas:** Provides software version and website information for InstantAtlas, the software used to create the interactive report.
  - **Settings:** Opens Adobe Flash Player settings menu.
  - **Global Settings:** Provides website and help menu for Adobe Flash Player 10 in pop up window.
  - **About Adobe Flash Player 10:** Provides website and information for Adobe Flash Player 10 in pop up window.

## Help Guide

- This help guide can be accessed anytime from the **Interactive Report I** page by selecting the **Help Guide** button. Alternatively it can be found on the [influenza vaccination coverage](#) webpage as the user guide to using the **interactive report**.