

Transcript for ECHO State Comparative Maps & Dashboards Tutorial with Accessible Instructions

The ECHO State Comparative Maps and Dashboards tutorial narration is spoken over a video recording capturing movement on the screen. Specific actions are described within brackets. Note that the State Dashboards are best accessed using Microsoft Internet Explorer 11, and that other browsers may not be fully accessible using the keyboard.

Introduction

[Begin on the ECHO home page echo.epa.gov in an Internet browser.]

In this demonstration, we will show you how to use the State Comparative Maps and Dashboards on the ECHO website to view environmental compliance and enforcement data and trends on national and state levels. You'll learn more about how to access and use these tools, and we'll walk through several example use cases.

State Comparative Maps Intro

The State Comparative Maps provide a high-level view of key environmental compliance and enforcement indicators. To access the State Comparative Maps, click on the Create Maps tile on the ECHO Home page, then select the State Comparative Maps link. *[Using the Tab key, navigate to the Create Maps tile and press Enter. Then use the tab key to select the "State Comparative Maps" link and press Enter.]*

The Comparative Maps and Dashboard Home page *[Using the Tab key, navigate to the "project homepage" hyperlink and press Enter]* contains additional information on the purpose of the maps, and describes the latest functionality, how to use the maps and dashboards, known problems and planned future enhancements.

[Using the Tab key, navigate to the "State Comparative Maps" link in Key Links box and press Enter] From the State Comparative Map page, you can choose to view maps related to Air, Hazardous Waste, or Water. You can filter the compliance and enforcement data displayed on the map, based on a variety of criteria. For example, you can choose an Agency or Facility Type to display, or filter on Regulated Facilities, Inspections, Violations, Enforcement Actions, and more. In many cases, the Map View can be adjusted to show either the number or percentage of facilities affected. Select the Help link for more information about each of the maps and their data sources *[Using the Tab key, navigate to the "Help" link to access the Help page].*

You can find critical information about the data and state program assessment in the About the Data and Assessing State Performance section, directly under the map.

State Comparative Maps Example

In this example, we will use the Hazardous Waste map to review reported facility violations in Pennsylvania and Ohio for 2014 *[Hazardous Waste is selected by default. Using the Tab key, navigate to the year slider, and use the right and left arrow keys to navigate to 2014]*. Note that information on this tab is available for several years of data. We'll select "EPA" for the Agency

and “Large” for the Facility Type [*Using the Tab key, navigate to and select the EPA and Large radio buttons*]. To refine the search even more, we will click on the Violations header and select “Facilities with New Violations” [*Using the Tab key, navigate to the Violations header and press Enter, then navigate to and select the Facilities with New Violations radio button*]. For the Map View, we will use the default selection of “Number.” Finally, clicking on the Refresh Map button will generate our filtered map [*Using the Tab key, navigate to the Refresh Map button and press Enter*].

Clicking on the state of Pennsylvania shows us that there are 9 large facilities with new violations reported in 2014, whereas clicking on Ohio shows us 11 large facilities with new violations for that same year. In this view, you can also click on the Dashboard links to jump directly to the State or National ECHO Dashboards. The map data can be downloaded by clicking on the Download Map Data button [*Using the Tab key, navigate to the Download Map Data button and press Enter to download a comma separated value file. Refer to the download file for the state data discussed in the tutorial*].

Next we’ll look at the State and National Dashboards. The Dashboards can be accessed from the ECHO Home page, from the navigation menu found at the top of any ECHO page, or from the State Comparative Maps page [*Using the Tab key, navigate to the State Dashboards hyperlink and press Enter*].

The Dashboards visually depict enforcement and compliance data. They allow multiple metrics to be monitored and displayed at a summary level, while offering additional supporting data at a more granular level. The dashboards on the ECHO website track both the facility and regulatory agency performance, as it relates to compliance with, and enforcement of, environmental standards.

The Dashboards are arranged by program and include Air, Drinking Water, Hazardous Waste, Pesticides, and Water. Each dashboard has two different Dashboard Views. The Activity Dashboard presents statistics on inspections, violations, and enforcement actions [*Using the Tab key, navigate to the Dashboard View dropdown list and use the arrow keys to change the view*]. The Performance Dashboard presents rates of activity, state-level statistics, and national averages. In the Pesticides Dashboard [*Using the Tab key, navigate to the Pesticides tab and press Enter*] the Worker Protection Standard View presents statistics on inspections, violations and enforcement actions for agricultural operations, and farm workers and pesticide handlers covered by the Worker Protection Standard. The Establishments Dashboard presents the same statistics for the regulated pesticide-producing establishments.

The Help link is specific to each Dashboard. Help pages describe how to use the dashboard and what the dashboard data represent.

State Dashboards Example 1: Water

Let’s take a closer look at the Water Dashboard [*Using the Tab key, navigate to the Water tab and press Enter*]. This dashboard presents interactive charts describing Facilities, Inspections, Violations, Enforcement Actions, and Penalties. Clicking on individual plots displays detailed underlying data.

For our first example, will use the Water Dashboard to review inspections conducted in Alabama between 2011 and 2016 [*Using the Tab key, navigate to the State dropdown list, then use the down arrow key to select Alabama*]. .

In the Activity Dashboard view, we can see the overall trend for inspections conducted by the state or EPA, by type of facility.

Let's take a closer look at inspections conducted at non-major facilities in fiscal year 2016 [*Using the Tab key, navigate to the 2016 Non-Major bar and press Enter*]. In the underlying data, we can review additional details for all 1,122 facilities inspected in fiscal year 2016.

To add context to these statistics, let's review inspections using the Performance Dashboard [*Navigate back to the Water Dashboard. Using the Tab key, navigate to the Dashboard View dropdown list, then use the down arrow key to select Performance Dashboard*].

In the Inspections chart, [*Using the Tab key, navigate to the Inspections chart dropdown list, then use the down arrow key to select Facilities Inspected – State/EPA (non-major GP, %)*] we can review the percentage of non-major facilities inspected annually in Alabama between fiscal years 2011 and 2016. Here we can also see the state and EPA national average.

You can print a chart by selecting the Print link below the chart.

You can export the underlying data for any chart by selecting the Export link below the chart. Format choices for export include Excel and Data in comma or tab separated format.

State Dashboards Example 2: Drinking Water

In our next example, we'll focus on drinking water data [*Using the Tab key, navigate to the Drinking Water tab and press Enter*]. We will continue using the state of Alabama for this example [*Using the Tab key, navigate to the State dropdown list, then use the down arrow key to navigate to Alabama*]. We'll select the Activity Dashboard [*Activity Dashboard is selected by default*], and review the Violations chart. For this example, we are interested in Public Water Systems with Health-based Violations. This chart tells us the number of systems over the past 5 years with violations related to health criteria.

By clicking on the bar for 2015 [*Using the Tab key, navigate to the 2015 bar and press Enter*], we can drill down to review a list of facilities with health-based violations in 2015.

For our final example, we will switch to the Performance Dashboard view and look at Public Water Systems with site visits [*Navigate back to the Drinking Water Dashboard. Using the Tab key, navigate to the Dashboard View dropdown list, then use the down arrow key to navigate to Performance*]. In this view, we can compare the national average for site visits, to the percent of sites visited by the state of Alabama in the past five years.

To further refine searches on the Drinking Water Dashboard, you can use Advanced Search criteria by clicking on the View Search Criteria dropdown box [*Using the Tab key, navigate to*

the View Search Criteria dropdown list, then use the down arrow key to select Advanced]. The advanced search allows you to search on additional criteria, including EPA Region, Public Water Supply size, Water Source, and Public Water Supply type.

Conclusion

This concludes our demonstration. Remember that additional information can be found in the Help pages for the State Comparative Maps and the Dashboards [*Use the Tab key to navigate through the Help menu*].

Thank you for your interest in using the ECHO State Comparative Maps and Dashboards! [*Use the Tab Key to navigate to the Contact Us link.*] Please use the Contact Us form for questions about this demonstration or about the maps and dashboards that were the focus of this tutorial.