

## HOW TO GUIDE

## Infectious Disease Trends in Ontario

This how to guide provides basic information to help you navigate the [Infectious Disease Trends in Ontario](#) interactive tool.<sup>1</sup> Please read the [Infectious Disease Trends in Ontario, 2019: Technical Notes](#)<sup>2</sup> if you have specific questions about methodology and case definitions.

**Step 1: Find the disease you are looking for**

To get started, enter the disease name you are looking for in the Search box. You can also click on the drop-down arrow to explore the list of diseases in alphabetical order.

**Figure 1. Search box****Select a Disease****Figure 2. Search box drop-down arrow****Select a Disease**  
AIDS  
Amebiasis  
Anthrax  
Blastomycosis  
Botulism

## Step 2: Explore Tabs

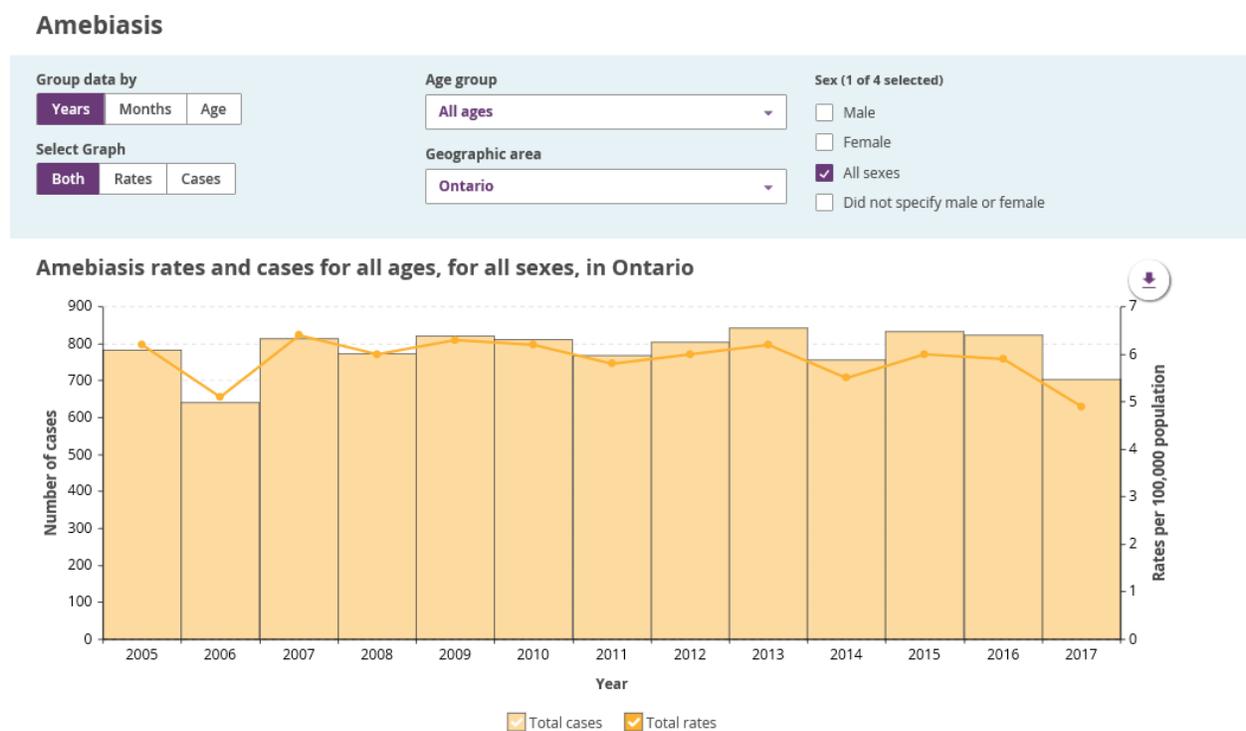
### TRENDS

For most diseases in the tool, the Trends tab is selected by default once the disease loads. This tab initially displays a graph of rates and cases by all ages and all sexes in Ontario by year. You can interact with the data by selecting different slicers (e.g., rates, cases, age group, sex, etc.) for the graph.

Please note: The appearance and the slicer options on the Trends tab may vary depending on the diseases (e.g., *Clostridium difficile* infection (CDI) outbreaks in hospitals have different slicers). Furthermore, not all diseases include a Trends tab.

Refer to [Appendix 1](#) for tips on how to use the interactive features of the graphs.

**Figure 3. Example graph from the Trends tab**



### MAPS

If you click on the Maps tab, an interactive map will appear. This tab initially displays a map of rates by public health unit (PHU) for all ages and all sexes for the most current surveillance year. You can interact with the map by selecting different slicers.

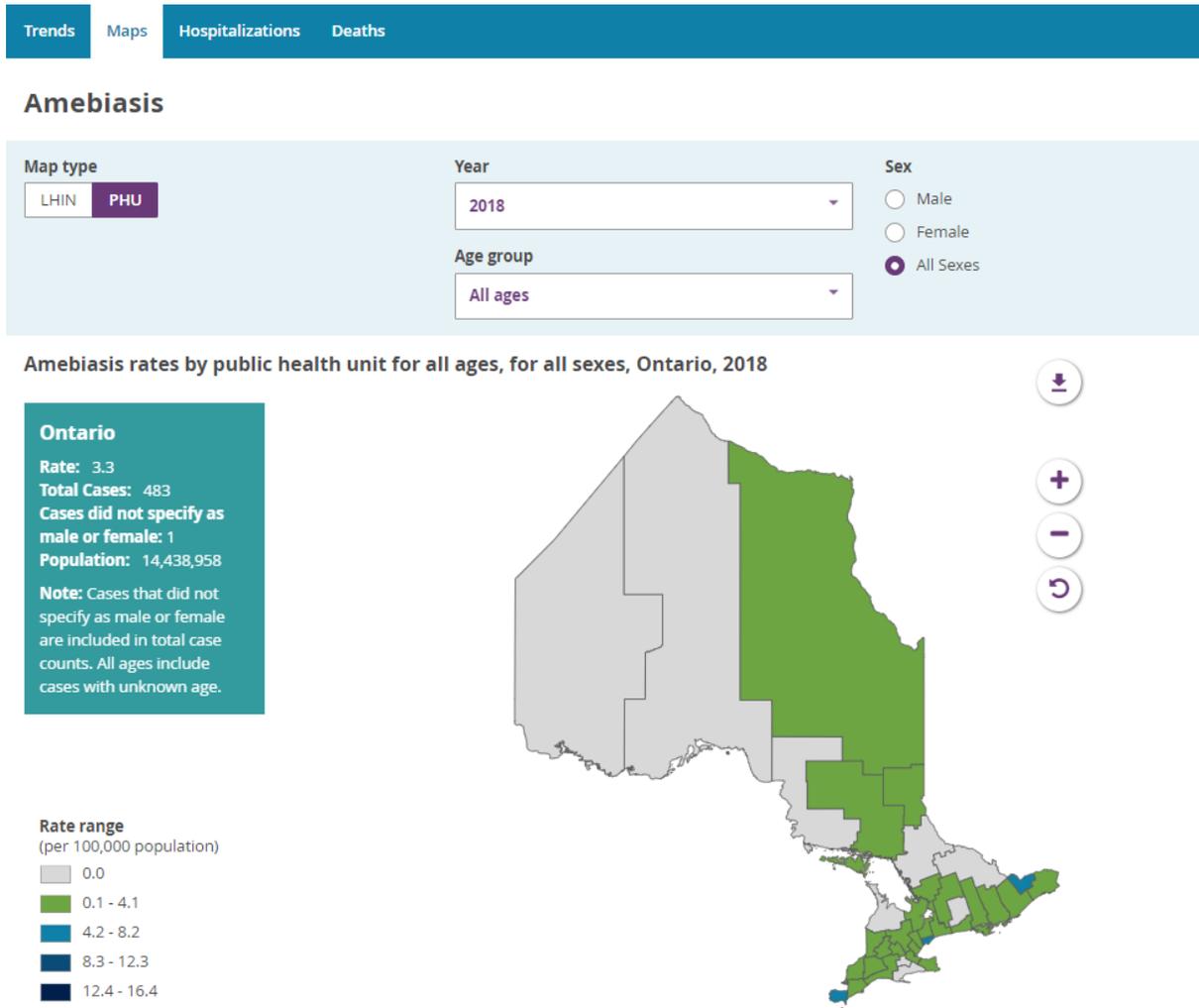
Hovering over a PHU or local health integration network (LHIN) area in the map will update the summary box to the left, which contains information such as the rate, total cases and population for the selected geographic area.

Please note: The slicer options on the Maps tab vary, depending on the disease. For example, congenital diseases and CDI outbreaks in hospitals only allow users to select the year, while other diseases include

sex, age group and year. Furthermore, not all diseases include a Maps tab. Please read the [Infectious Disease Trends in Ontario, 2019: Technical Notes](#)<sup>2</sup> for more information on the rate ranges.

Refer to [Appendix 2](#) for tips on how to use the interactive features of the maps.

**Figure 4. Example map from the Maps tab (featuring selector for LHIN or PHU data)**



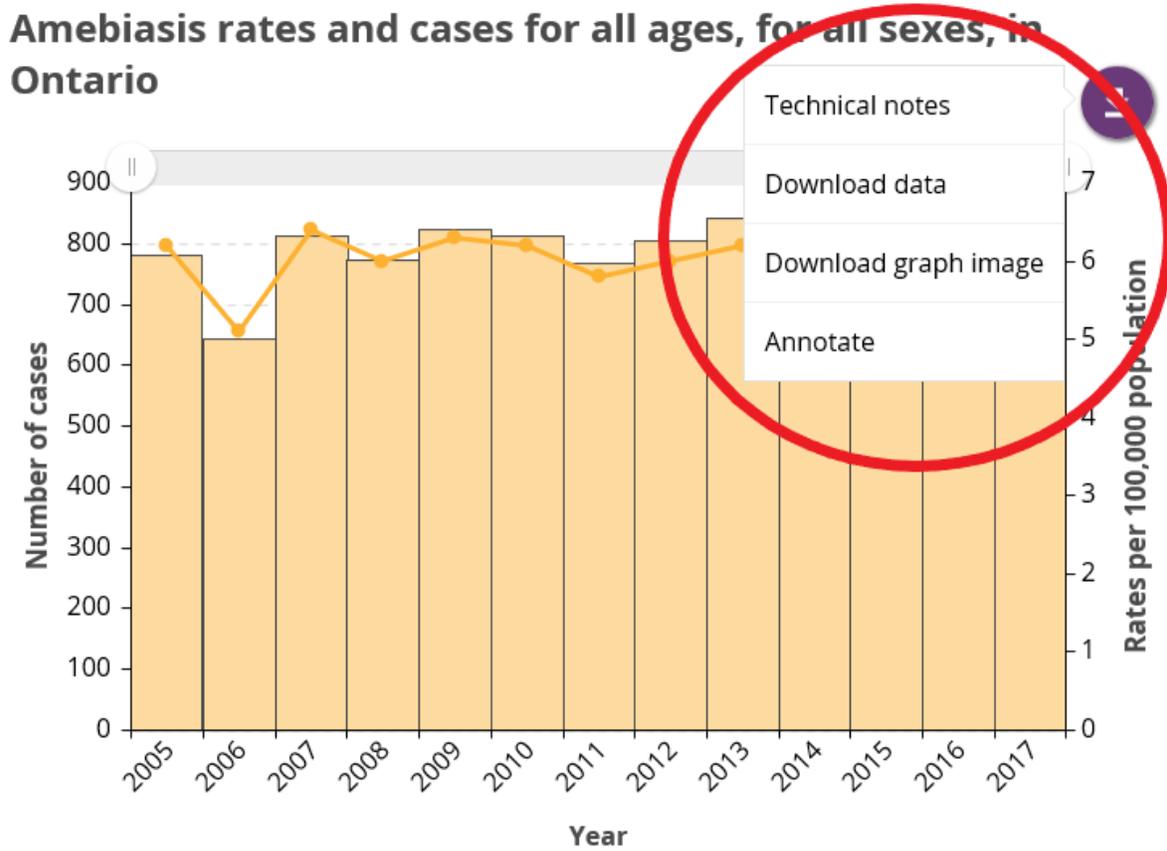
## OTHER TABS

Depending on the disease, several other tabs may be available. These tabs include: Deaths, Hospitalizations, Organism details, Immunization status, among others. Refer to [Appendix 3](#) for a summary of the other tabs available and how to use them.

## Step 3: Annotate data in a graph

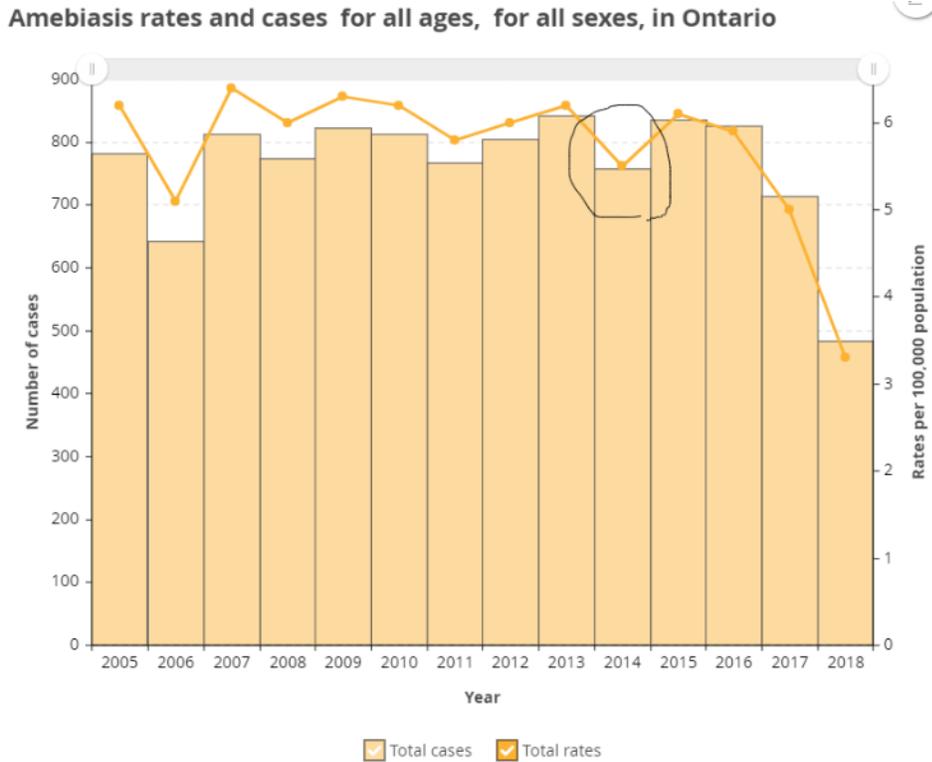
Annotate the data by hovering over the download button (above the graph, to the right) and selecting Annotate from the drop-down menu.

Figure 5. Location of the Annotate feature on the Trends tab



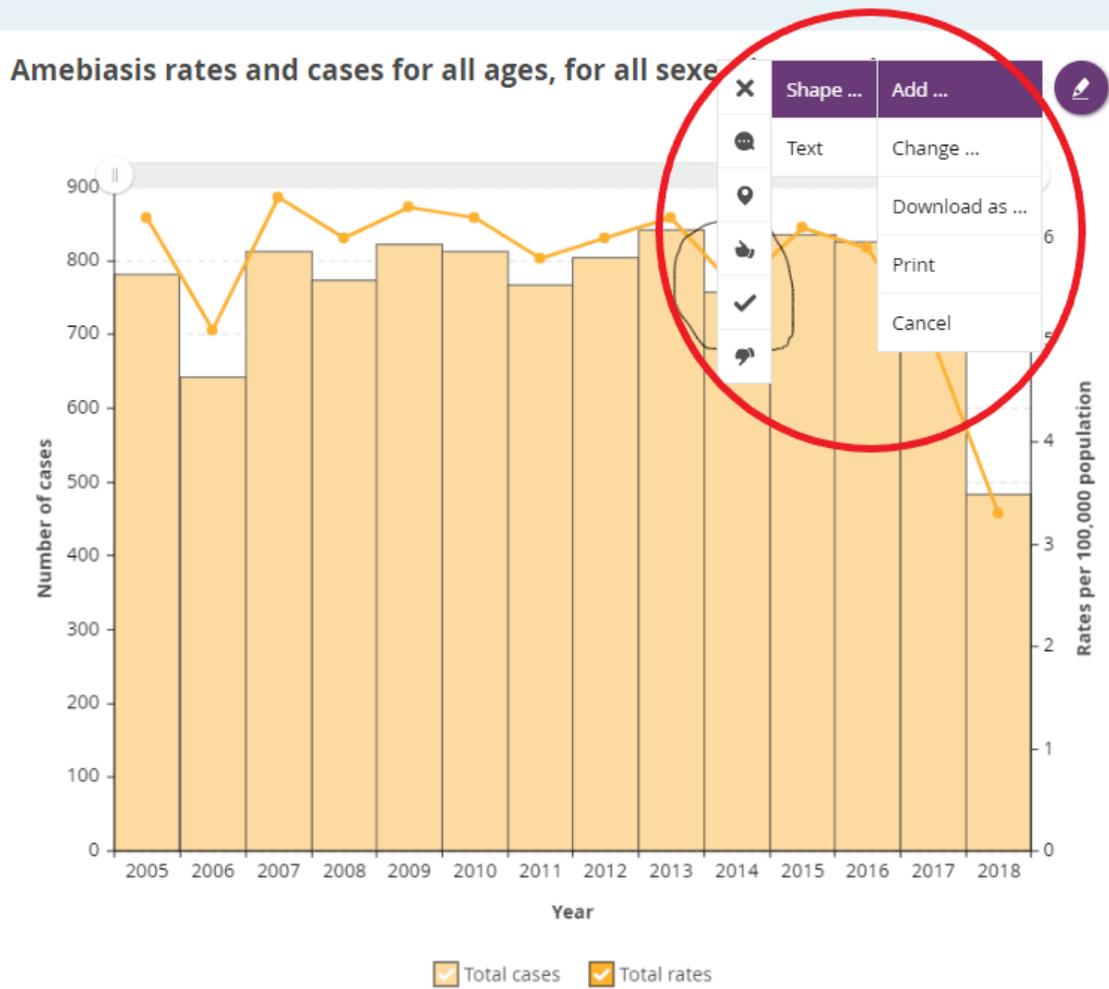
You can draw directly on the graph with your cursor when you click Annotate.

**Figure 6. Example of an annotated graph on the Trends tab**



Click on Annotate if you would like more options. A dropdown menu will appear. Click Add and select the type of annotation that is most suitable for your purposes. The Shape section will provide you with six options.

Figure 7. Location of the Shape section under the Annotate menu



Try different colours or line sizes if you have a lot of information to highlight. You can do this by selecting Change under the Annotate menu. You can alter the colour and size of your annotations, among other options.

Figure 8. Location of the Change section under the Annotate menu



You can download your image by clicking the Download as button. Annotations you have made will disappear on the online graph, but they will be in your downloaded file.

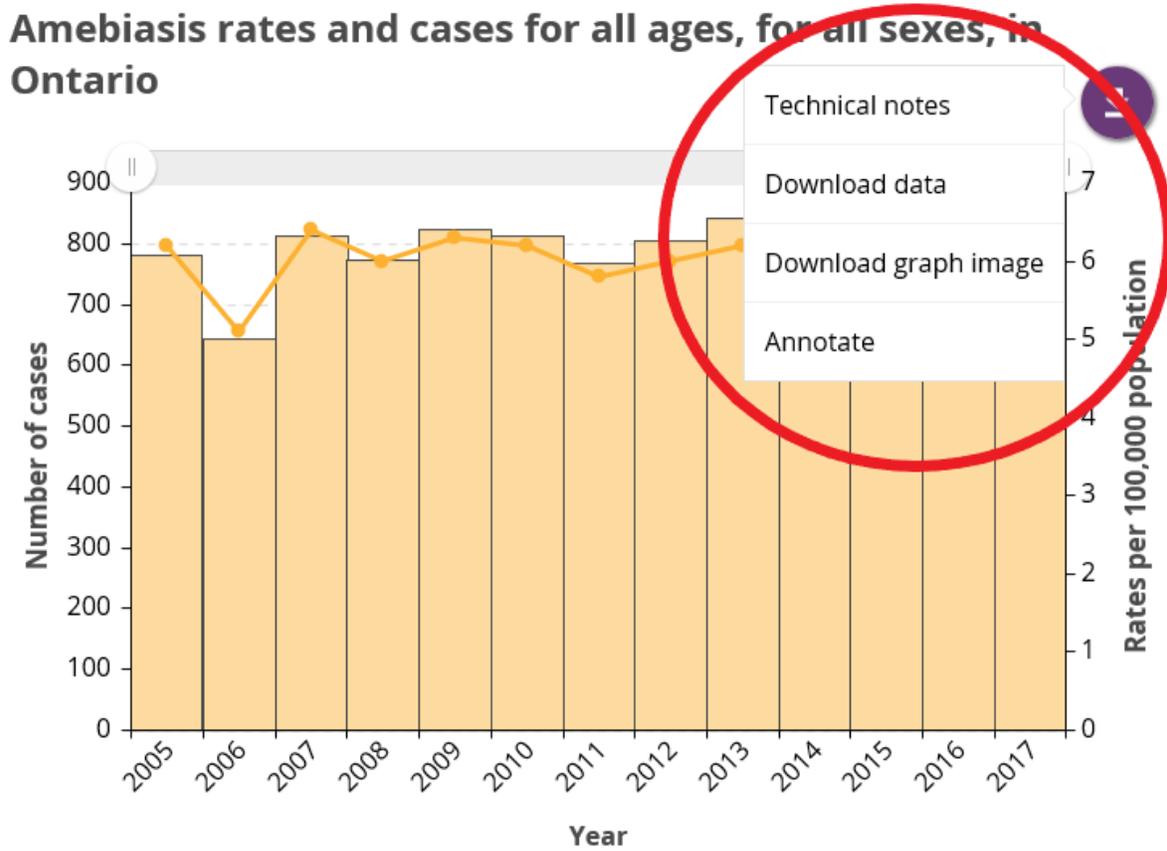
### Step 4: Download data and images

Hover over the Download data button that is located above and to the right of the graph, map or table to export data in a .csv file. Select Download data from the drop-down menu that appears.

Similarly, to export an image of a graph or a map, hover over the Download image button. Select the file type you want to download from the drop-down menu that appears.

Please note: The data or image file name will reflect the options selected for the graph or map when you download.

Figure 9. Location of the download options under the Trends tab



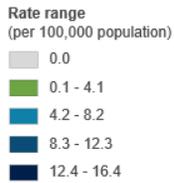
**Figure 10. Location of the download options under the Maps tab**

Amebiasis rates by public health unit for all ages, for all sexes, Ontario, 2017

**Ontario**

Rate: 4.9  
Total cases: 704  
Cases did not specify as male or female: 1  
Population: 14,229,571

Note: Cases that did not specify as male or female are included in total case counts.



## Step 5: Extra help

Please refer to the [Infectious Disease Trends in Ontario, 2019: Technical Notes<sup>2</sup>](#) for more detailed information on the data and methods used, including information on case definitions, classifications and data management. Please [contact PHO](#) if you have any questions or comments about the tool.

# References

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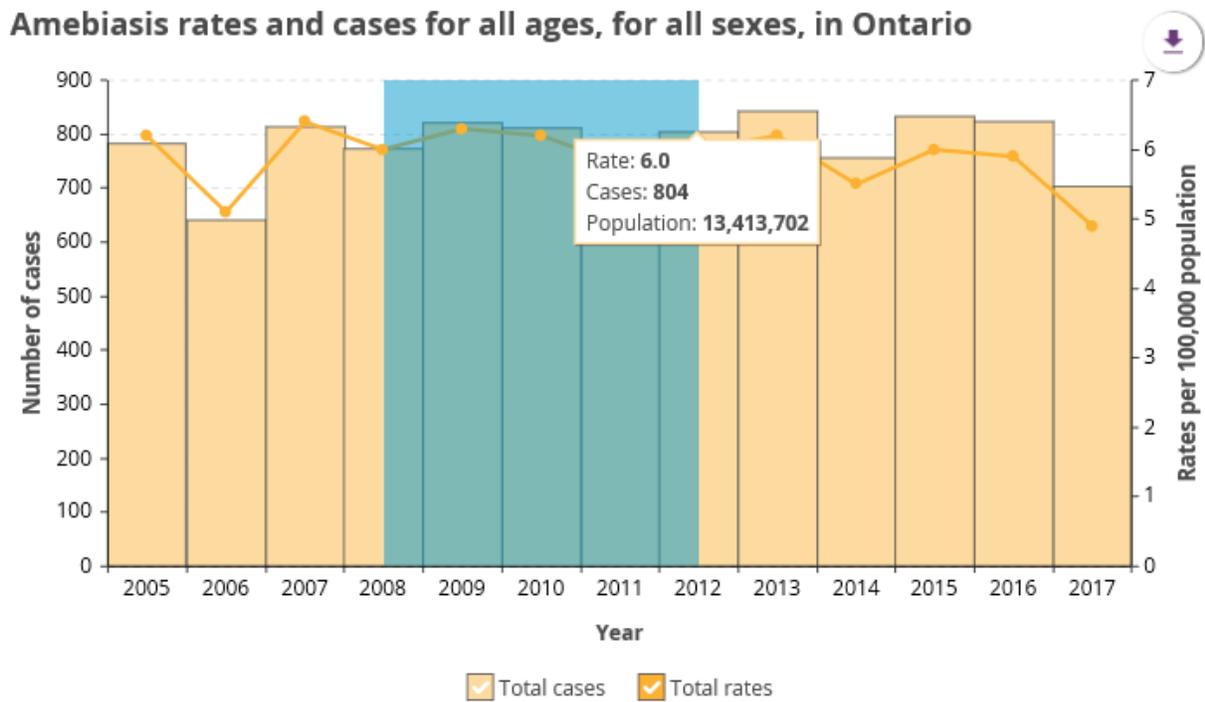
1. Ontario Agency for Health Protection and Promotion (Public Health Ontario). Infectious disease trends in Ontario [Internet]. Toronto, ON: Queen's Printer for Ontario; 2019 [modified 2019 Nov 25; cited 2020 Dec 02]. Available from: <https://www.publichealthontario.ca/en/data-and-analysis/infectious-disease/reportable-disease-trends-annually>
2. Ontario Agency for Health Protection and Promotion (Public Health Ontario). Infectious disease trends in Ontario, 2019: technical notes [Internet]. Toronto, ON: Queen's Printer for Ontario; 2020 [cited 2020 Dec 02]. Available from: <https://www.publichealthontario.ca/-/media/documents/i/2019/idto-technical-notes.pdf?la=en>

# Appendix 1 – Graph Tips

## Zoom In

Use your mouse to highlight the area of the graph that you want to zoom in on by clicking and dragging your mouse over the graph. A blue highlight will appear over the graph as you select the area. The graph will zoom in to the area you have highlighted when you let go of the mouse.

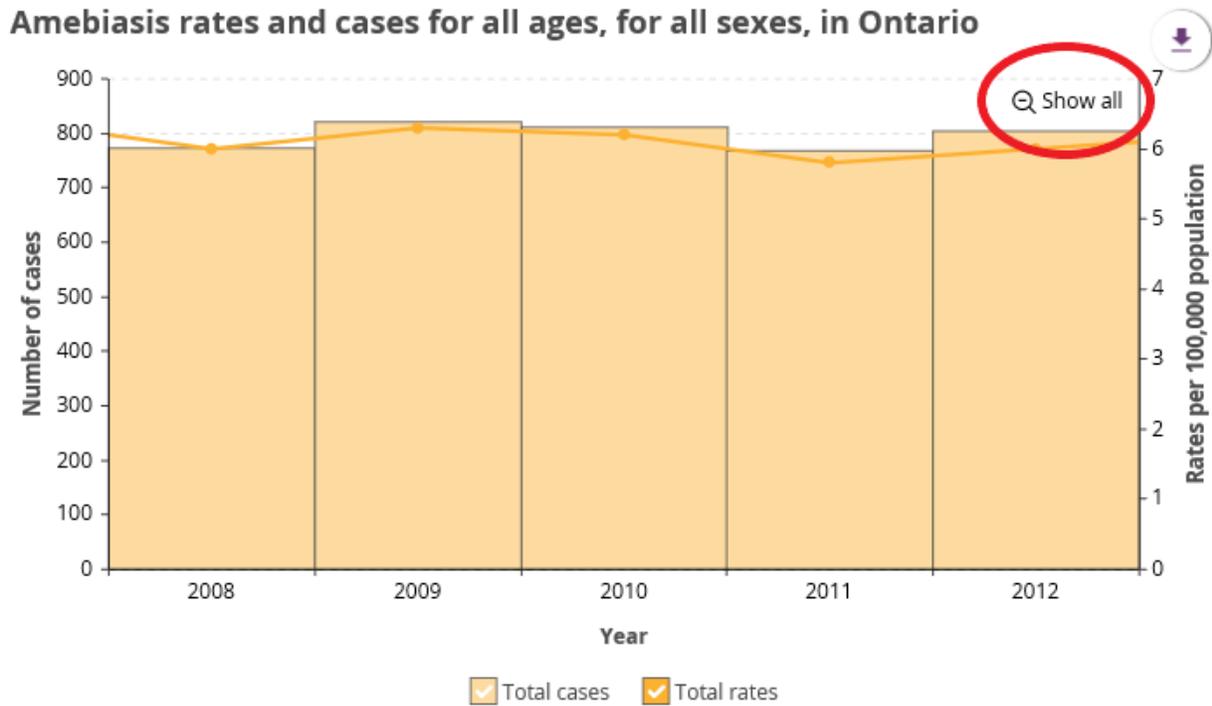
**Figure 1. Example of how to zoom in on the Trends tab**



## Zoom Out

Click the "show all" icon at the top right corner of the graph to zoom out.

**Figure 2. Example of how to zoom out on the Trends tab**



## Scroll Bar Feature

This feature allows you to zoom in or out on a graph. To do this, move the horizontal scroll bar buttons (e.g., the white circles with two lines in the middle) either left or right.

**Figure 3. Scroll bar zoom in/out feature**



To scroll through a graph, click the area between the scroll bar buttons and drag the scroll bar either left or right. To zoom out, click the Show all icon at the top right corner of the graph.

## Interactive Legend

You can interact with the legend to specify the data that appears on the graph. The item is removed from the graph when you click on an item in the legend once. Clicking it again makes the item reappear in the graph.

**Figure 5. Interactive legend feature**



## Appendix 2 – Map Tips

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### Zoom In

Select the plus symbol (+) at the top right hand side of the map image to zoom in.

**Figure 1. Zoom in button**



### Zoom Out

Select the minus symbol (-) at the top right hand side of the map image to zoom out.

**Figure 2. Zoom out button**



### Drag an Image

Click and hold the left button on your mouse to drag the image. Release the left button on your mouse to stop dragging the image.

### Reset

Select the Reset button located between the plus and minus symbols at the top right hand side of the map image to restore the default zoom and position of the map.

**Figure 3. Reset button**



## Appendix 3 – Summary of Other Tabs Available in the Tool

**Table 1. Summary of other tabs available in the Infectious Disease Trends in Ontario tool**

Tab Name	Description	How to Use It
Summary document	<ul style="list-style-type: none"> <li>Available for select diseases.</li> <li>Provides a written summary of the epidemiologic trends.</li> </ul>	<ul style="list-style-type: none"> <li>Summaries for 2018 and previous years are available as a PDF document accessible through a hyperlink on the landing page for the tool.</li> <li>Note: Diseases summaries are not provided for 2019.</li> </ul>
Age and Sex	<ul style="list-style-type: none"> <li>Available as a separate tab for CDI outbreaks in hospitals only; otherwise included under the Trends tab for other diseases.</li> <li>Displays CDI case data sliced by age and sex in an interactive graph.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Age and sex tab.</li> <li>Update the slicers based on your interest (e.g., year, sex, age groups). In some instances, users can make multiple selections under each slicer.</li> <li>Users can download the data as a .csv file or as an image by hovering over the download button and selecting the appropriate option.</li> <li>Note: Refer to the Trends tips section of this document for more information on how to interact with a graph.</li> </ul>
Drug Resistance	<ul style="list-style-type: none"> <li>Available for tuberculosis only.</li> <li>Summarizes drug resistance for the most current surveillance year based on specimens received and tested at PHO Laboratory.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Drug Resistance tab.</li> </ul>
Deaths	<ul style="list-style-type: none"> <li>Available for select diseases.</li> <li>Summarizes the number and percent of deaths by year from 2015 in a table.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Deaths tab.</li> </ul>
Hospitalizations	<ul style="list-style-type: none"> <li>Available for select diseases.</li> <li>Summarizes the number and percent of hospitalized cases by year from 2015 in a table.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Hospitalizations tab.</li> </ul>

Tab Name	Description	How to Use It
Immunization Status	<ul style="list-style-type: none"> <li>Available for select vaccine preventable diseases.</li> <li>Summarizes the immunization status of cases by year from 2015.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Immunization Status tab.</li> <li>Select the year of interest from the drop-down.</li> </ul>
Importation Status	<ul style="list-style-type: none"> <li>Available for measles, rubella and congenital rubella syndrome.</li> <li>Summarizes the travel history of cases by year from 2015.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Importation Status tab.</li> <li>Select the year of interest from the drop-down.</li> </ul>
Organism Details	<ul style="list-style-type: none"> <li>Available for select diseases.</li> <li>Summarizes number and percent of cases by species, subtype, serotype, serogroup or genotype by year from 2015 in a table.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Organism Details tab.</li> <li>Select the year of interest from the drop-down.</li> <li>Users can download the data as a .csv file by hovering over the download button and selecting download data.</li> </ul>
Overview	<ul style="list-style-type: none"> <li>Only tab available for rare diseases.</li> <li>Summarizes the number of cases identified for the most current surveillance year and historically (if relevant).</li> </ul>	<ul style="list-style-type: none"> <li>Navigate to the disease with an Overview tab; the Overview tab is selected by default. No other tabs available.</li> </ul>
Resistance types	<ul style="list-style-type: none"> <li>Available for CPE only.</li> <li>Summarizes the number and percent of cases resistant to carbapenemase by year in a table.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Resistance Type tab.</li> <li>Select the year of interest from the drop-down.</li> </ul>
Risk Factors Summary	<ul style="list-style-type: none"> <li>Available for CDI cases associated with hospital outbreaks and CPE.</li> <li>Summarizes the number and percent of cases by risk factor by year in a table.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Risk Factors Summary tab.</li> <li>Select the year of interest from the drop-down.</li> <li>Users can down the data as a .csv file by hovering over the download button and selecting download data.</li> </ul>
Specimen testing – PHO Laboratory	<ul style="list-style-type: none"> <li>Available for chlamydia, gonorrhea, legionellosis and influenza.</li> <li>Displays the number and percent positive tests for the most current surveillance year based on specimens received and tested at PHO’s laboratory.</li> </ul>	<ul style="list-style-type: none"> <li>Select the Specimen testing – PHO Laboratory tab.</li> <li>Select from the options available in the Graph drop-down.</li> <li>Note: Refer to the Trends tips section of this document for more information on how to interact with a graph.</li> </ul>

**Public Health Ontario**

480 University Avenue, Suite 300

Toronto, Ontario

M5G 1V2

647.260.7100

[communications@oahpp.ca](mailto:communications@oahpp.ca)

[publichealthontario.ca](http://publichealthontario.ca)

