

The logo features two green leaf-like shapes. The left one contains a white line graph icon, and the right one contains a white human figure icon.

MITracking

Michigan Environmental
Public Health Tracking

How to Use the
Data Portal

Welcome!



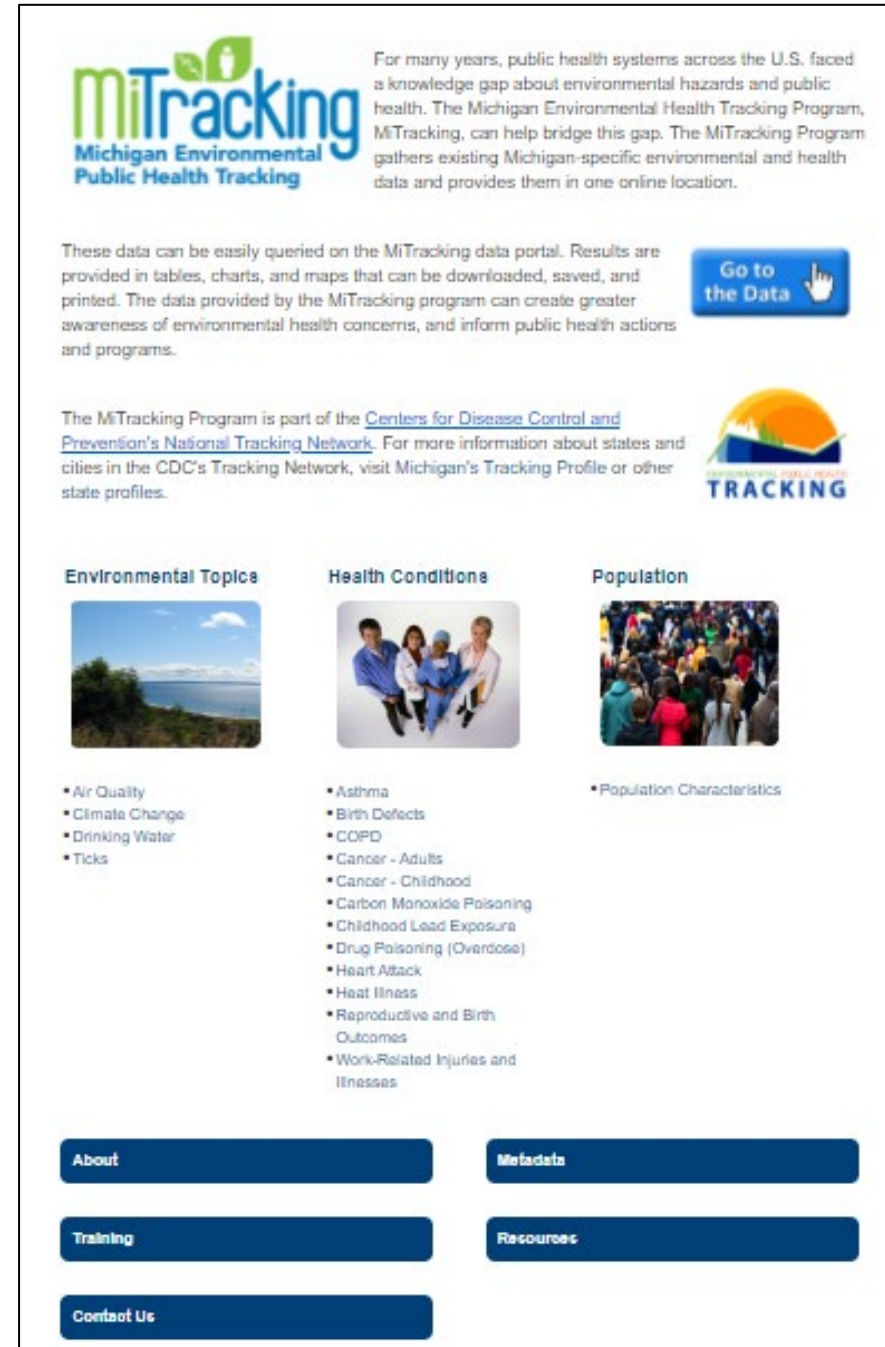
Hello and welcome to the Michigan Tracking, or MiTracking tutorial on how to use the data portal. This video will teach you how to:

- Search for data by running a query
- Create a table, chart, or map
- Save or download your results

Let's get started!

Homepage

- We can find MiTracking at michigan.gov/MiTracking.



The screenshot shows the homepage of the Michigan Environmental Health Tracking Program (MiTracking). At the top left is the MiTracking logo, which includes a stylized green leaf and a person icon. To the right of the logo is a paragraph explaining the program's purpose: "For many years, public health systems across the U.S. faced a knowledge gap about environmental hazards and public health. The Michigan Environmental Health Tracking Program, MiTracking, can help bridge this gap. The MiTracking Program gathers existing Michigan-specific environmental and health data and provides them in one online location." Below this is a blue button labeled "Go to the Data" with a hand cursor icon. A second paragraph states: "These data can be easily queried on the MiTracking data portal. Results are provided in tables, charts, and maps that can be downloaded, saved, and printed. The data provided by the MiTracking program can create greater awareness of environmental health concerns, and inform public health actions and programs." Below this is another blue button labeled "Go to the Data".

The middle section features the text: "The MiTracking Program is part of the [Centers for Disease Control and Prevention's National Tracking Network](#). For more information about states and cities in the CDC's Tracking Network, visit Michigan's Tracking Profile or other state profiles." To the right of this text is a logo for the "Michigan Environmental Health Tracking" program, featuring a stylized sun and mountains.

The bottom section is organized into three columns:

- Environmental Topics**: Includes a photograph of a lake and a list of topics: Air Quality, Climate Change, Drinking Water, and Ticks.
- Health Conditions**: Includes a photograph of a medical team and a list of conditions: Asthma, Birth Defects, COPD, Cancer - Adults, Cancer - Childhood, Carbon Monoxide Poisoning, Childhood Lead Exposure, Drug Poisoning (Overdose), Heart Attack, Heat Illness, Reproductive and Birth Outcomes, and Work-Related Injuries and Illnesses.
- Population**: Includes a photograph of a diverse crowd and a list of "Population Characteristics".

At the bottom of the page are six dark blue buttons arranged in two columns: "About", "Training", "Contact Us" on the left, and "Metadata", "Resources" on the right.

Homepage - 2

- The homepage starts with a short introduction.
- On the right, we see the **Go to the Data** button that will take us to the data portal.
- Under that we see a link to the National Tracking program, where national data lives and links to other states' portals can be found.

The screenshot shows the homepage of the MiTracking program. At the top left is the logo for "MiTracking Michigan Environmental Public Health Tracking". To the right of the logo is a paragraph of introductory text. Below this is a "Go to the Data" button, which is circled in orange. Below the button is a link to the "Centers for Disease Control and Prevention's National Tracking Network" and a logo for "NATIONAL TRACKING NETWORK". Below this are three columns of content: "Environmental Topics" with a landscape image and a list of topics (Air Quality, Climate Change, Drinking Water, Ticks); "Health Conditions" with a photo of medical professionals and a list of conditions (Asthma, Birth Defects, COPD, Cancer - Adults, Cancer - Childhood, Carbon Monoxide Poisoning, Childhood Lead Exposure, Drug Poisoning (Overdose), Heart Attack, Heat Illness, Reproductive and Birth Outcomes, Work-Related Injuries and Illnesses); and "Population" with a crowd photo and a link to "Population Characteristics". At the bottom are five blue buttons: "About", "Training", "Contact Us", "Metadata", and "Resources".

MiTracking
Michigan Environmental
Public Health Tracking

For many years, public health systems across the U.S. faced a knowledge gap about environmental hazards and public health. The Michigan Environmental Health Tracking Program, MiTracking, can help bridge this gap. The MiTracking Program gathers existing Michigan-specific environmental and health data and provides them in one online location.

These data can be easily queried on the MiTracking data portal. Results are provided in tables, charts, and maps that can be downloaded, saved, and printed. The data provided by the MiTracking program can create greater awareness of environmental health concerns, and inform public health actions and programs.

The MiTracking Program is part of the [Centers for Disease Control and Prevention's National Tracking Network](#). For more information about states and cities in the CDC's Tracking Network, visit Michigan's Tracking Profile or other state profiles.

Go to the Data

NATIONAL TRACKING NETWORK

Environmental Topics

- Air Quality
- Climate Change
- Drinking Water
- Ticks

Health Conditions

- Asthma
- Birth Defects
- COPD
- Cancer - Adults
- Cancer - Childhood
- Carbon Monoxide Poisoning
- Childhood Lead Exposure
- Drug Poisoning (Overdose)
- Heart Attack
- Heat Illness
- Reproductive and Birth Outcomes
- Work-Related Injuries and Illnesses

Population

- Population Characteristics

About **Metadata**

Training **Resources**

Contact Us

Homepage - 3

- Going down the homepage, notice that there are three **Categories** of data: **Environmental Topics, Health Conditions, and Population.**
- Under each category are **Content Areas.** Clicking on a link will bring up a page with information and resources for that topic. We can access the data portal from these pages as well.
- Below Content Areas, we will find Navigational Buttons to About, Metadata, Training, Resources, and Contact Us pages.
- Let's click on the **blue Go to the Data** button to go to the data portal.

The screenshot shows the MiTracking homepage. At the top left is the logo for MiTracking, Michigan Environmental Public Health Tracking. To the right of the logo is a paragraph of text explaining the program's purpose. Below this is a blue button labeled "Go to the Data" with a hand cursor icon. Further down, there is a link to the CDC's National Tracking Network and another logo for Michigan Environmental Public Health Tracking. The main content area is divided into three columns: "Environmental Topics", "Health Conditions", and "Population". Each column has a representative image and a list of content areas. At the bottom, there are five blue buttons for navigation: "About", "Metadata", "Training", "Resources", and "Contact Us".

MiTracking
Michigan Environmental
Public Health Tracking

For many years, public health systems across the U.S. faced a knowledge gap about environmental hazards and public health. The Michigan Environmental Health Tracking Program, MiTracking, can help bridge this gap. The MiTracking Program gathers existing Michigan-specific environmental and health data and provides them in one online location.

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[Go to the Data](#)

The MiTracking Program is part of the [Centers for Disease Control and Prevention's National Tracking Network](#). For more information about states and cities in the CDC's Tracking Network, visit Michigan's Tracking Profile or other state profiles.

Environmental Topics **Health Conditions** **Population**

- Air Quality
- Climate Change
- Drinking Water
- Ticks

- Asthma
- Birth Defects
- COPD
- Cancer - Adults
- Cancer - Childhood
- Carbon Monoxide Poisoning
- Childhood Lead Exposure
- Drug Poisoning (Overdose)
- Heart Attack
- Heat Illness
- Reproductive and Birth Outcomes
- Work-Related Injuries and Illnesses

- Population Characteristics

[About](#) [Metadata](#)

[Training](#) [Resources](#)

[Contact Us](#)

Terms of Use

- The **Terms of Use** agreement will pop up. Please read the agreement terms.
- Click “**Agree**” to accept the terms of use and enter the portal.

Terms of Use

These data are provided by the Michigan Department of Health and Human Services (MDHHS) [MiTracking Program](#) through a cooperative agreement with the Centers for Disease Control and Prevention (CDC). Please acknowledge MDHHS and CDC as original data sources in all reports or presentations based on these data.

By accessing these data and using the MiTracking Program, I acknowledge and agree to the following:

- I will use the data for statistical reporting and analysis only.
- I will not attempt to learn the identity of any person included in the data, and will not combine these data with other data for the purpose of matching records to identify individuals.
- In the event I discover the identity of any person or establishment through my use of this database; I will not disclose or make use of such information, and will immediately report the incident to mdhhs-mitracking@michigan.gov.
- I will not imply or state, either in written or oral form, that interpretations based on these data are those of the original data sources unless I am formally collaborating with the data source.
- The environmental hazard and health outcome data shown on this website are not necessarily related. Some, but not all, environmental hazards are currently known or suspected to affect human health. Many personal risk factors that may be related to health outcome data are not represented.
- These data cannot be used for commercial purposes and shall not be used to engage in any method, act, or practice to conduct the solicitation or advertisement of goods, services, or real estate to Michigan consumers.
- MiTracking cannot guarantee the completeness of the information contained in these datasets and expressly disclaims liability for errors and omissions in their content.

Failure to comply with these Terms of Use may result in legal penalties.

Agree

Decline

Basic Query - 1

- We are now in the data portal.
- For a quick query, we can type keywords into the **Search Bar** and click search. Available measures will pop up for us to select.

The screenshot shows the MiTracking website interface. At the top, the logo for Michigan Department of Health & Human Services (MDHHS) and Michigan Environmental Public Health Tracking is visible. A search bar at the top right contains the text 'Asthma' and a green 'Search' button. Below the search bar, there are sections for 'Data Options', '* = Required', '* Categories:', '* Content Areas:', '* Indicators:', and '* Measures:'. Each of these sections has a dropdown menu. The search results are displayed in a table with columns for 'Category', 'Content Area', 'Indicator', and 'Measure'. The results show three entries for 'Asthma' under the 'Health' category, each with a 'Select' button. The first entry is 'Age-Adjusted Rate of Hospitalization for Asthma per 10,000 Population', the second is 'Crude Rate of Hospitalization for Asthma per 10,000 Population', and the third is 'Number of Hospitalizations for Asthma'. Below the table, there is a section for 'What is Asthma?' with a brief description and a link to the 'asthma content page'. At the bottom, there is a 'Close' button and a note: 'You searched for the following terms: asthma'.

MDHHS Michigan Department of Health & Human Services
MiTracking Michigan Environmental Public Health Tracking

Asthma Search

Data Options ▾

* = Required

* Categories: Select a Category ▾

* Content Areas: Select a Content Area ▾

* Indicators:

* Measures:

Search Results

Category	Content Area	Indicator	Measure	About These Data
Health	Asthma	Hospitalizations 2001-2014	Age-Adjusted Rate of Hospitalization for Asthma per 10,000 Population	What is Asthma? Asthma is a disease of the lungs that can affect adults and children of all ages. There is no cure, but asthma can be controlled with proper care. For more information about asthma, visit our asthma content page . Why was this Dataset Created?...
Health	Asthma	Hospitalizations 2001-2014	Crude Rate of Hospitalization for Asthma per 10,000 Population	What is Asthma? Asthma is a disease of the lungs that can affect adults and children of all ages. There is no cure, but asthma can be controlled with proper care. For more information about asthma, visit our asthma content page . Why was this Dataset Created?...
Health	Asthma	Hospitalizations 2001-2014	Number of Hospitalizations for Asthma	What is Asthma? Asthma is a disease of the lungs that can affect adults and children of all

You searched for the following terms: asthma

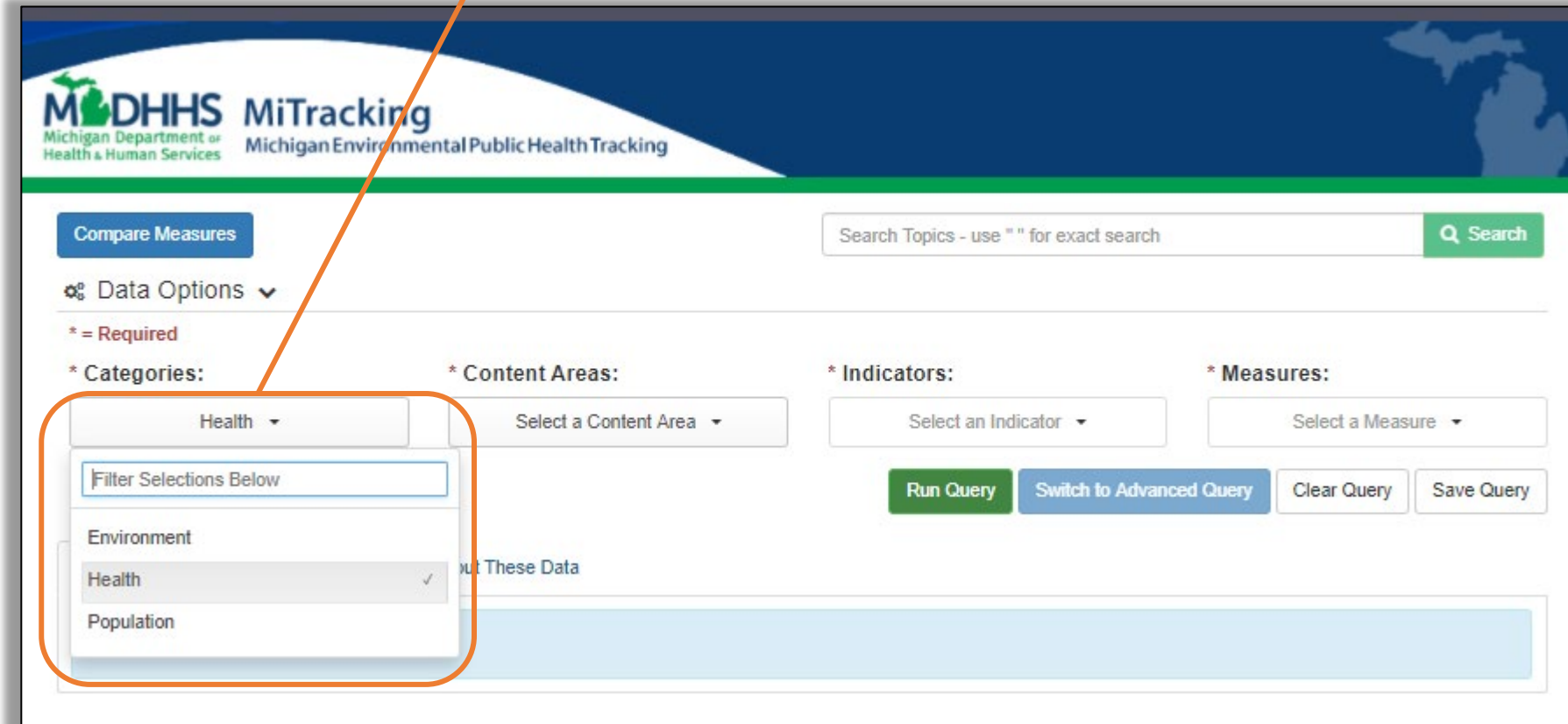
Basic Query - 2

- Or we can conduct a **Basic Search** using the query tool.
- The selections needed to run a basic query are **Categories, Content Areas, Indicators, and Measures.**

The screenshot displays the MiTracking interface for a basic query. At the top, the Michigan Department of Health & Human Services (MDHHS) logo and 'MiTracking Michigan Environmental Public Health Tracking' are visible. Below the header, there is a 'Compare Measures' button and a search bar labeled 'Search Topics - use "" for exact search' with a 'Search' button. A 'Data Options' dropdown menu is also present. The main section is titled '* = Required' and contains four dropdown menus: '* Categories:', '* Content Areas:', '* Indicators:', and '* Measures:'. Each dropdown menu has a 'Select a...' label and a downward arrow. Below these dropdowns are four buttons: 'Run Query' (green), 'Switch to Advanced Query' (blue), 'Clear Query' (white), and 'Save Query' (white). At the bottom, there are icons for 'Table', 'Chart', 'Map', and 'About These Data'. A light blue banner at the bottom of the interface contains the text 'Run a query to view tabular data.'

Category – Health

For this example, we will click on **Select Category** and choose **Health**.



The screenshot displays the MiTracking web application interface. At the top left, the logo for the Michigan Department of Health & Human Services (MDHHS) is visible, along with the text "MiTracking Michigan Environmental Public Health Tracking". A search bar is located at the top right, labeled "Search Topics - use '' for exact search". Below the search bar, there is a "Compare Measures" button and a "Data Options" dropdown menu. The main content area is divided into four sections: "* Categories:", "* Content Areas:", "* Indicators:", and "* Measures:". The "* Categories:" section has a dropdown menu that is open, showing a list of options: "Environment", "Health" (which is selected and has a checkmark), and "Population". An orange box highlights this dropdown menu, and an orange arrow points from the text "we will click on Select Category and choose Health" to the "Health" option. Below the dropdown menu, there is a "Filter Selections Below" input field. The "* Content Areas:" section has a dropdown menu labeled "Select a Content Area". The "* Indicators:" section has a dropdown menu labeled "Select an Indicator". The "* Measures:" section has a dropdown menu labeled "Select a Measure". At the bottom of the form, there are four buttons: "Run Query" (green), "Switch to Advanced Query" (blue), "Clear Query", and "Save Query".

Content Area – Asthma

Now we need to select a **Content Area**. We will click on **Asthma** for this query.

The screenshot shows a web application interface for selecting a content area. The interface includes a search bar at the top right with the text "Search Topics - use "" for exact search" and a "Search" button. Below the search bar is a "Compare Measures" button and a "Data Options" dropdown menu. The main content area is divided into four sections: "Categories:", "Content Areas:", "Indicators:", and "Measures:". The "Categories:" section has a dropdown menu set to "Health". The "Content Areas:" section has a dropdown menu set to "Asthma", which is highlighted by an orange callout box. The "Indicators:" section has a dropdown menu set to "Select an Indicator". The "Measures:" section has a dropdown menu set to "Select a Measure". Below these sections are buttons for "Run Query", "Switch to Advanced Query", "Clear Query", and "Save Query". A "Table" view is selected, and a message says "Run a query to view tabular data."

*** Content Areas:**

- Asthma ✓
- Birth Defects
- Cancer
- Carbon Monoxide Poisoning
- Childhood Cancer
- Childhood Lead Exposure
- Chronic Obstructive Pulmonary Disease (COPD)
- Drug Poisoning (Overdose)
- Heart Attacks

Indicator – Hospitalizations

We will select **Hospitalizations 2016 - Current** as the **Indicator**.

The screenshot shows a web application interface for selecting indicators and measures. The interface includes a search bar at the top right with the text "Search Topics - use "" for exact search" and a "Search" button. Below the search bar is a "Compare Measures" button and a "Data Options" dropdown menu. The main content area is divided into four sections: "Categories:", "Content Areas:", "Indicators:", and "Measures:". The "Categories:" section has a dropdown menu with "Health" selected. The "Content Areas:" section has a dropdown menu with "Asthma" selected. The "Indicators:" section has a dropdown menu with "Hospitalizations 2016 - Current" selected, and a search box below it with the text "Filter Selections Below". The "Measures:" section has a dropdown menu with "Select a Measure" selected. There are also buttons for "Query", "Clear Query", and "Save Query". At the bottom left, there are tabs for "Table", "Chart", "Map", and "About These Data". A blue banner at the bottom left contains the text "Run a query to view tabular data."

Measures – Number of Hospitalizations

Let's choose **Number of Hospitalizations for Asthma** for our Measure.

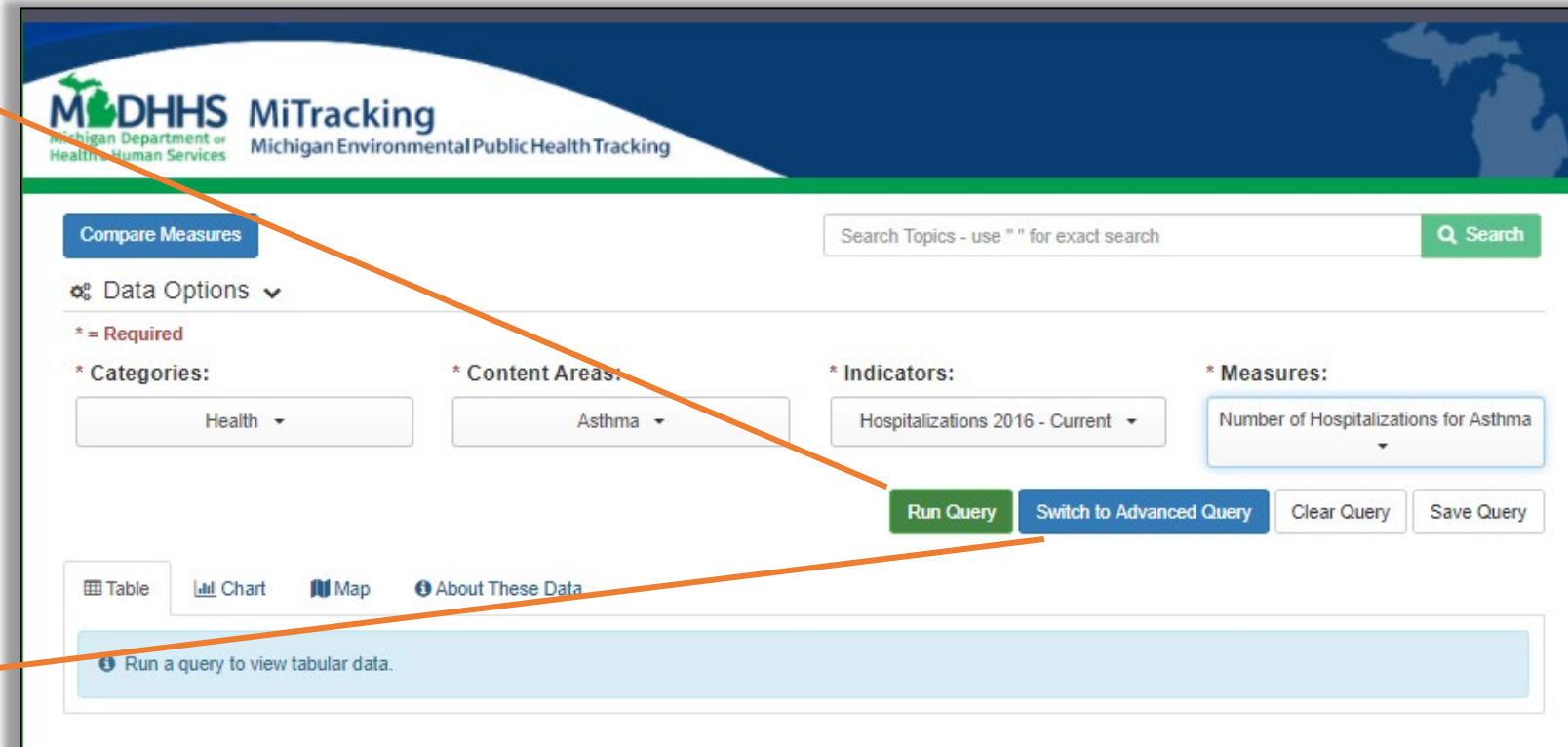
The screenshot shows a web application interface for selecting data measures. The interface includes a search bar at the top right with the text "Search Topics - use "" for exact search" and a "Search" button. Below the search bar is a "Compare Measures" button. The main area is divided into several sections:

- Data Options** (with a gear icon and a dropdown arrow)
- * = Required** (in red text)
- * Categories:** A dropdown menu showing "Health".
- * Content Areas:** A dropdown menu showing "Asthma".
- * Indicators:** A dropdown menu showing "Hospitalizations 2016 - Current".
- * Measures:** A dropdown menu showing "Number of Hospitalizations for Asthma". This dropdown is open, showing a list of options: "Number of Hospitalizations for Asthma", "Age-Adjusted Rate of Hospitalization for Asthma per 10,000 Population", "Crude Rate of Hospitalization for Asthma per 10,000 Population", and "Number of Hospitalizations for Asthma" (which is selected with a checkmark).

Below the dropdowns are two buttons: "Run Query" (green) and "Switch to Advanced" (blue). At the bottom left, there are icons for "Table", "Chart", "Map", and "About These Data". A light blue banner at the bottom contains the text "Run a query to view tabular data."

Basic or Advanced Search

- We can select **Run Query** for a basic search.
- Or we can expand our search. To do this, click the **Switch to Advanced Query** button.



The screenshot displays the MiTracking interface with the following elements:

- Header:** MDHHS Michigan Department of Health & Human Services and MiTracking Michigan Environmental Public Health Tracking.
- Search Bar:** "Search Topics - use '' for exact search" with a "Search" button.
- Buttons:** "Compare Measures" (blue), "Run Query" (green), "Switch to Advanced Query" (blue), "Clear Query" (white), and "Save Query" (white).
- Data Options:** A dropdown menu.
- Filters:**
 - * = Required**
 - * Categories:** Health
 - * Content Areas:** Asthma
 - * Indicators:** Hospitalizations 2016 - Current
 - * Measures:** Number of Hospitalizations for Asthma
- View Options:** Table, Chart, Map, About These Data.
- Footer:** "Run a query to view tabular data."

Advanced Search – More Selections

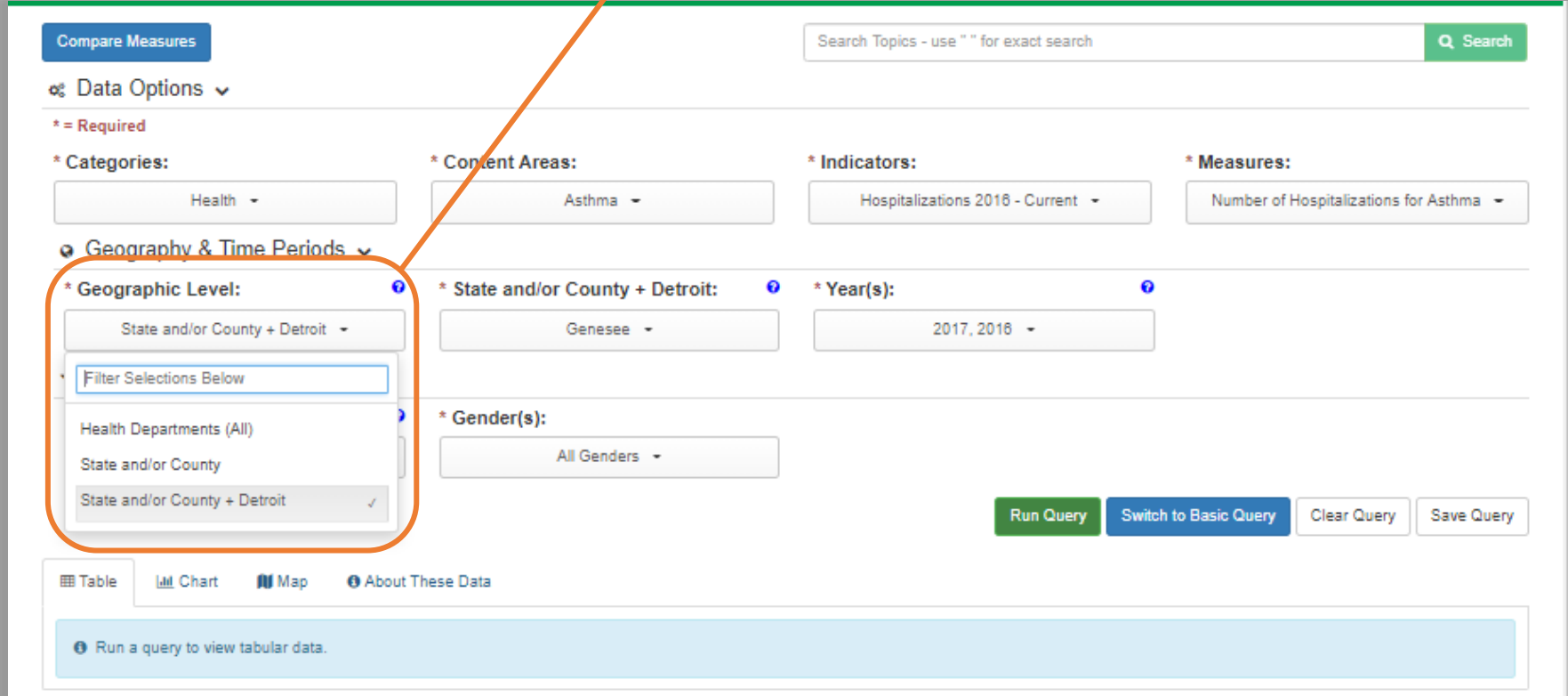
We can now choose the **Geographic Level and Time Period**.

The screenshot shows an advanced search interface with the following components:

- Compare Measures** button (top left)
- Search Topics - use " " for exact search** input field with a **Search** button (top right)
- Data Options** dropdown menu (left side)
- * = Required** legend (left side)
- * Categories:** Health (dropdown)
- * Content Areas:** Asthma (dropdown)
- * Indicators:** Hospitalizations 2016 - Current (dropdown)
- * Measures:** Number of Hospitalizations for Asthma (dropdown)
- Geography & Time Periods** dropdown menu (highlighted with an orange box)
 - * Geographic Level:** State and/or County + Detroit (dropdown)
 - * State and/or County + Detroit:** Statewide Only, Alcona, ... (85) (dropdown)
 - * Year(s):** 2017, 2016 (dropdown)
- Other Filters** dropdown menu (left side)
 - * Age Group(s):** All Ages (dropdown)
 - * Gender(s):** All Genders (dropdown)
- Run Query** (green button), **Switch to Basic Query** (blue button), **Clear Query** (white button), **Save Query** (white button) (bottom right)

Advanced Search – Geographic Level

We will select **State and/or County + Detroit** as the **Geographic Level**.



The screenshot shows an advanced search interface with the following fields and options:

- Compare Measures** (button)
- Data Options** (dropdown menu)
- * = Required** (legend)
- * Categories:** Health
- * Content Areas:** Asthma
- * Indicators:** Hospitalizations 2016 - Current
- * Measures:** Number of Hospitalizations for Asthma
- Geography & Time Periods** (dropdown menu)
- * Geographic Level:** State and/or County + Detroit (selected, highlighted by an orange box and arrow)
- * State and/or County + Detroit:** Genesee
- * Year(s):** 2017, 2018
- * Gender(s):** All Genders
- Run Query** (button)
- Switch to Basic Query** (button)
- Clear Query** (button)
- Save Query** (button)
- Table** (selected), **Chart**, **Map**, **About These Data** (tabs)
- Run a query to view tabular data.** (message)

Advanced Search – Geographic Level - 2

We can choose individual counties or City of Detroit from the State and/or County box by selecting each or typing a name into the box. Let's **Select All**.

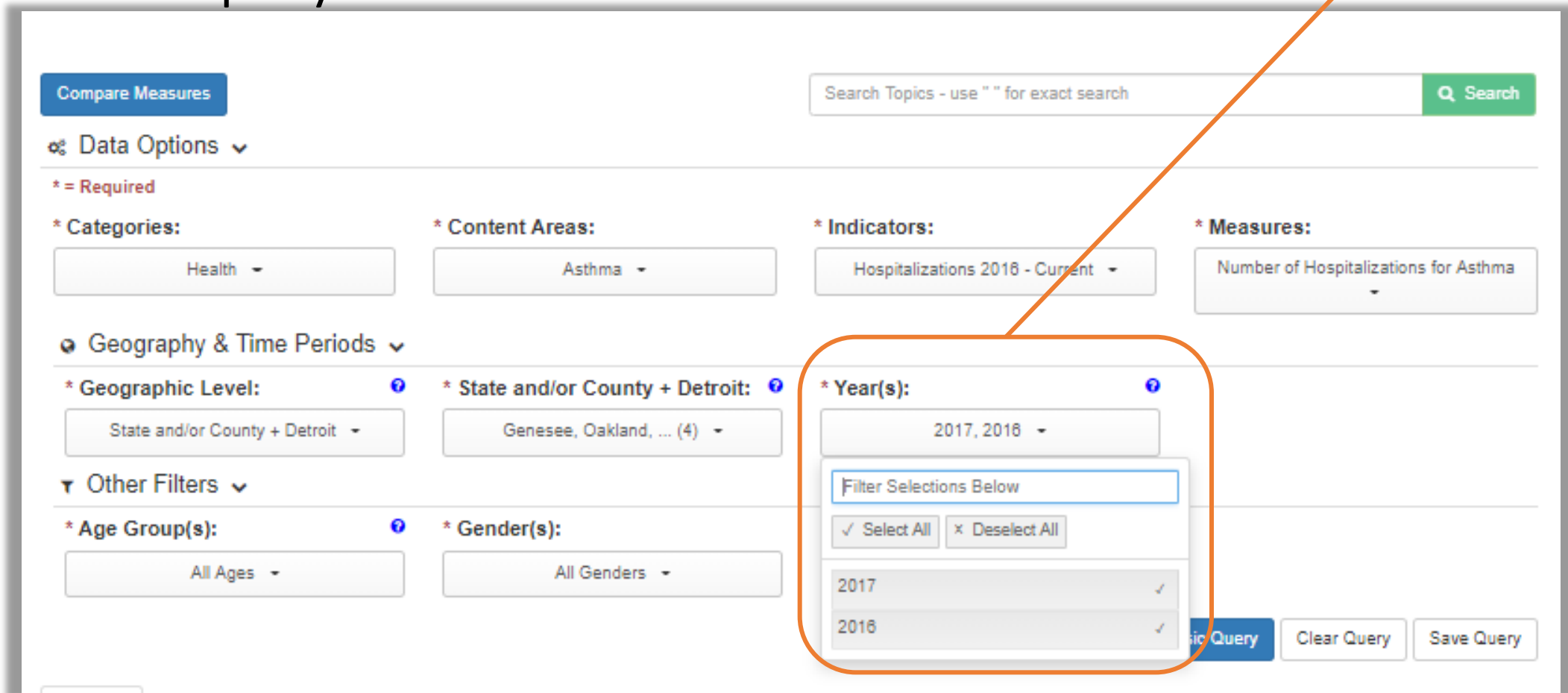
The screenshot shows a web-based search interface with the following sections:

- Compare Measures** (blue button)
- Data Options** (dropdown menu)
- * Required** (red text)
- * Categories:** Health (dropdown)
- * Content Areas:** Asthma (dropdown)
- * Indicators:** Hospitalizations 2016 - Current (dropdown)
- * Measures:** Number of Hospitalizations for Asthma (dropdown)
- Geography & Time Periods** (dropdown menu)
- * Geographic Level:** State and/or County + Detroit (dropdown)
- * State and/or County + Detroit:** Genesee, Oakland, ... (4) (dropdown)
- Year(s):** 2017, 2016 (dropdown)
- Other Filters** (dropdown menu)
- * Age Group(s):** All Ages (dropdown)
- Search box:** Search Topics - use "" for exact search (with Search button)
- Buttons:** Run Query (green), Switch to Basic Query (blue), Clear Query (white), Save Query (white)

The *** State and/or County + Detroit:** section is highlighted with a red box. It contains a dropdown menu showing "Genesee, Oakland, ... (4)". Below this is a search box with "ci" entered. There are two buttons: "Select All" (checked) and "Deselect All". Below the search box is a dropdown menu showing "City of Detroit" (checked).

Advanced Search – Years

Now we will select a **Time Period**. We will select years **2016** and **2017** for our query.



The screenshot shows an advanced search interface with several sections:

- Compare Measures** (button)
- Data Options** (dropdown menu)
- * = Required** (legend)
- * Categories:** Health
- * Content Areas:** Asthma
- * Indicators:** Hospitalizations 2016 - Current
- * Measures:** Number of Hospitalizations for Asthma
- Geography & Time Periods** (dropdown menu)
- * Geographic Level:** State and/or County + Detroit
- * State and/or County + Detroit:** Genesee, Oakland, ... (4)
- * Year(s):** 2017, 2016 (dropdown menu with a filter overlay)
- Other Filters** (dropdown menu)
- * Age Group(s):** All Ages
- * Gender(s):** All Genders

The *** Year(s):** dropdown menu is open, showing a filter overlay with the following options:

- Filter Selections Below
- Select All
- Deselect All
- 2017
- 2016

Buttons at the bottom include: **Basic Query**, **Clear Query**, and **Save Query**.

Advanced Search – Other Filters

- For some measures **Other Filters** are available.
- For this search, we have **Age Group** and **Gender** filters.
- **All Ages** and **Genders** are automatically selected, but we could choose any available combination for these filters.

Compare Measures Search Topics - use "" for exact search

Data Options ▾

* = Required

* Categories: Health ▾	* Content Areas: Asthma ▾	* Indicators: Hospitalizations 2016 - Current ▾	* Measures: Number of Hospitalizations for Asthma ▾
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Geography & Time Periods ▾

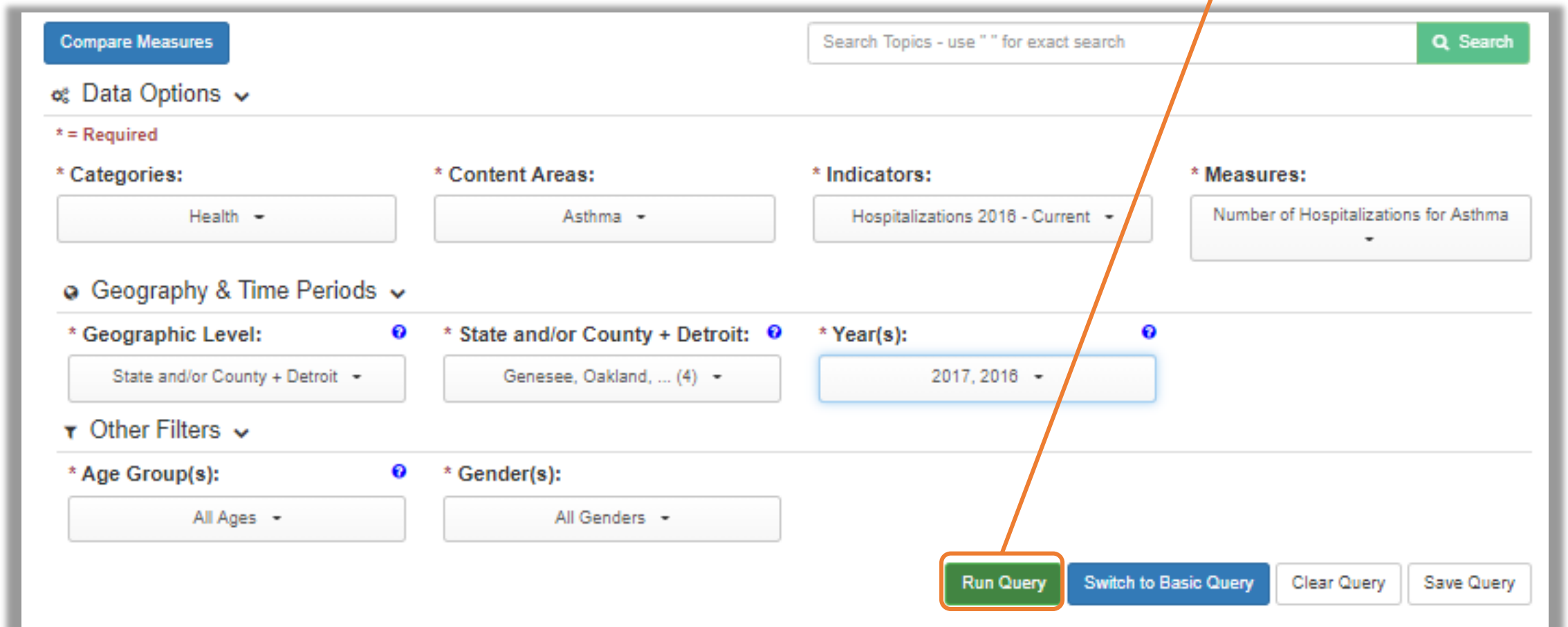
* Geographic Level: State and/or County + Detroit ▾	* State and/or County + Detroit: Genesee, Oakland, ... (4) ▾	* Year(s): 2017, 2018 ▾
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Other Filters ▾

* Age Group(s): All Ages ▾	* Gender(s): All Genders ▾
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Run Query

- We're ready to run the query, so we will click on the **Run Query** button

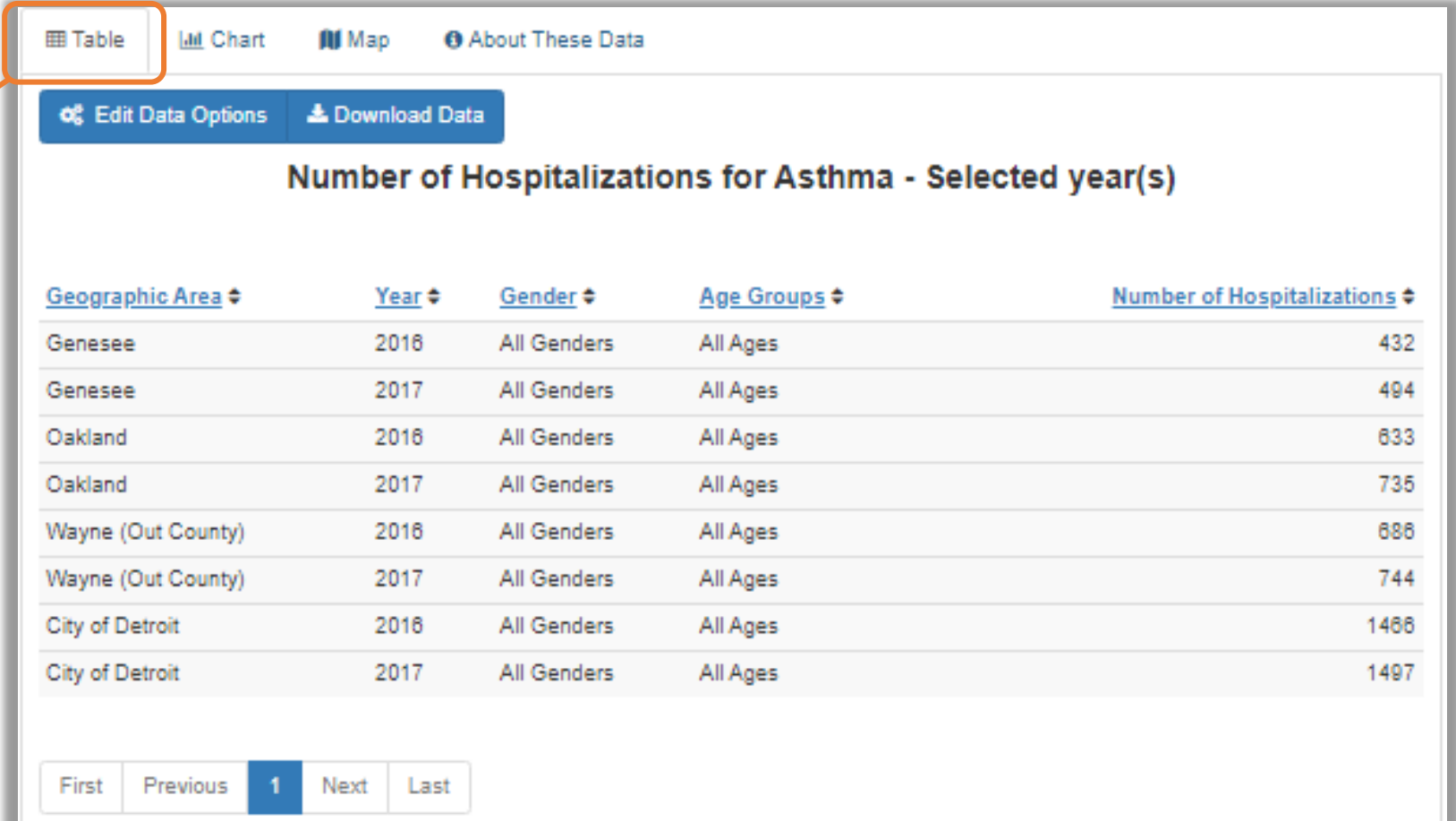


The screenshot shows a query builder interface with the following sections:

- Compare Measures** (blue button)
- Data Options** (dropdown menu)
- * = Required** (legend)
- * Categories:** Health
- * Content Areas:** Asthma
- * Indicators:** Hospitalizations 2016 - Current
- * Measures:** Number of Hospitalizations for Asthma
- Geography & Time Periods** (dropdown menu)
- * Geographic Level:** State and/or County + Detroit
- * State and/or County + Detroit:** Genesee, Oakland, ... (4)
- * Year(s):** 2017, 2016
- Other Filters** (dropdown menu)
- * Age Group(s):** All Ages
- * Gender(s):** All Genders
- Run Query** (green button, highlighted with an orange box and arrow)
- Switch to Basic Query** (blue button)
- Clear Query** (white button)
- Save Query** (white button)

Results – Table

Now we can view our results in a **Table**. The table is initially sorted alphabetically by geographic area. If we click on the column titles, we can sort the table by any variable.



The screenshot shows a data visualization interface with the following elements:

- Navigation tabs: **Table** (selected), Chart, Map, About These Data
- Buttons: Edit Data Options, Download Data
- Title: Number of Hospitalizations for Asthma - Selected year(s)
- Table with columns: Geographic Area, Year, Gender, Age Groups, Number of Hospitalizations
- Table content:

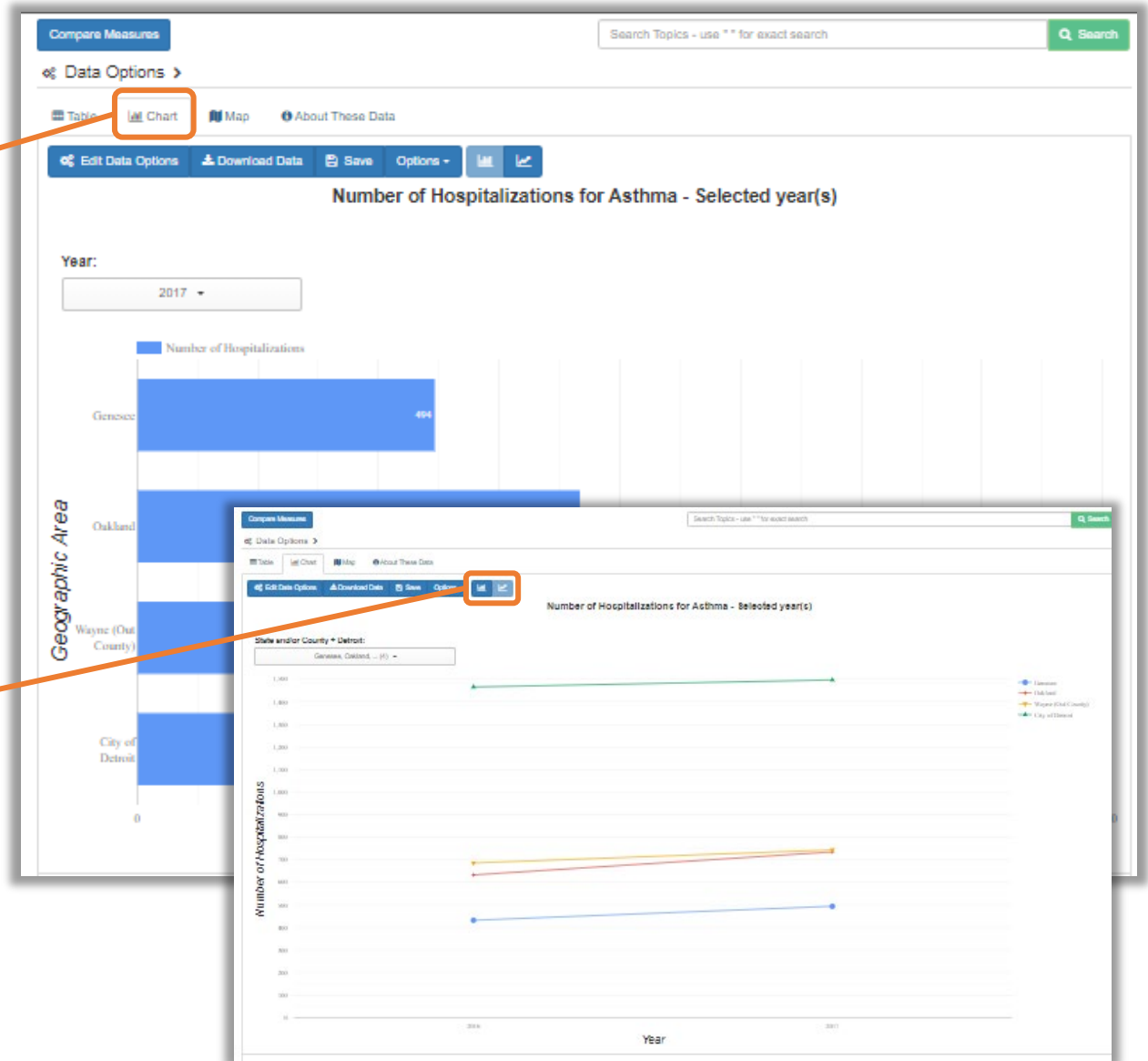
<u>Geographic Area</u>	<u>Year</u>	<u>Gender</u>	<u>Age Groups</u>	<u>Number of Hospitalizations</u>
Genesee	2016	All Genders	All Ages	432
Genesee	2017	All Genders	All Ages	494
Oakland	2016	All Genders	All Ages	633
Oakland	2017	All Genders	All Ages	735
Wayne (Out County)	2016	All Genders	All Ages	686
Wayne (Out County)	2017	All Genders	All Ages	744
City of Detroit	2016	All Genders	All Ages	1466
City of Detroit	2017	All Genders	All Ages	1497

Page navigation: First, Previous, **1**, Next, Last

Results – Chart

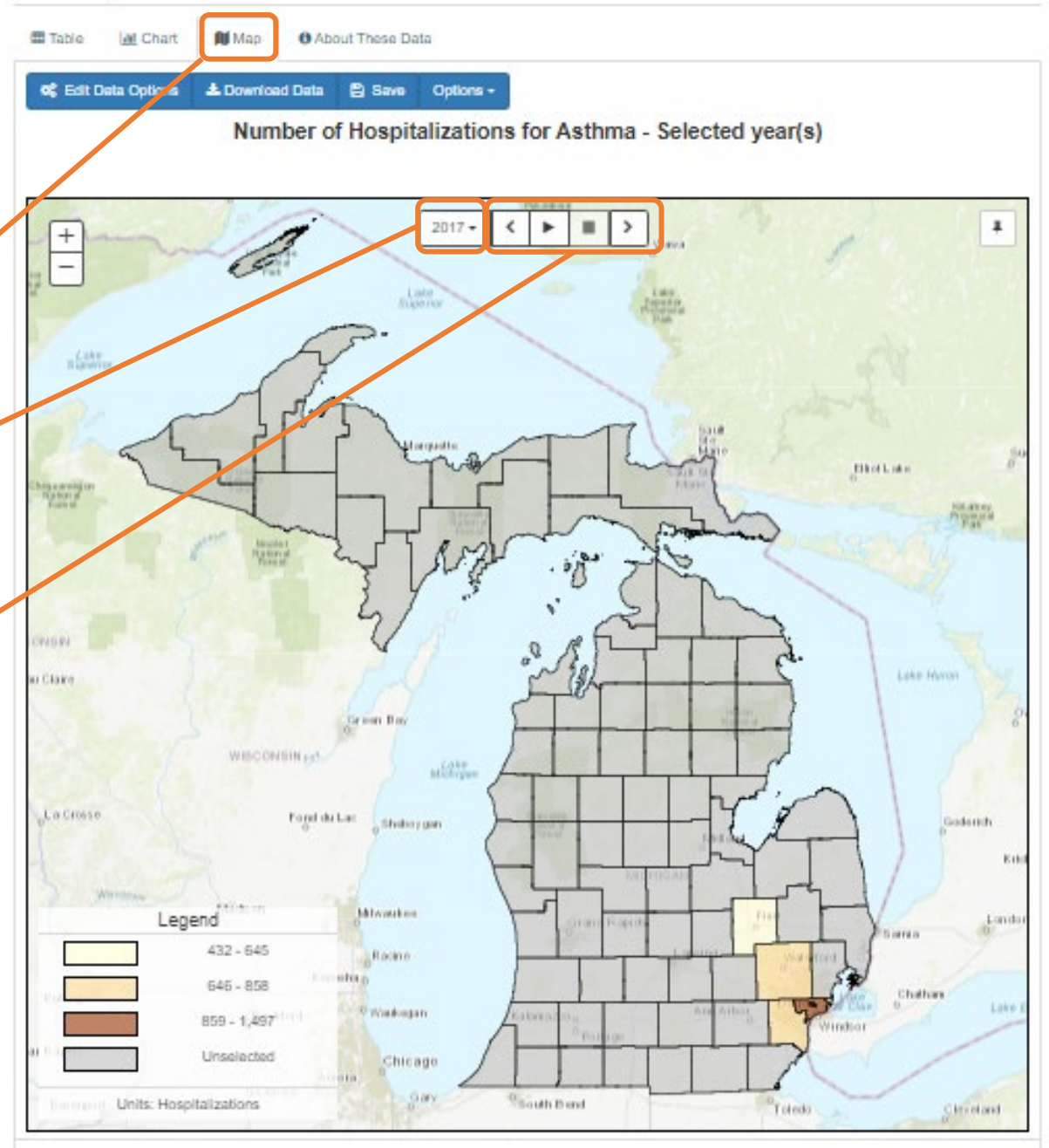
We'll click on the **Chart** tab to view results in a line graph.

We can switch the chart type by selecting the bar chart button.
We can switch back by selecting the line graph button.



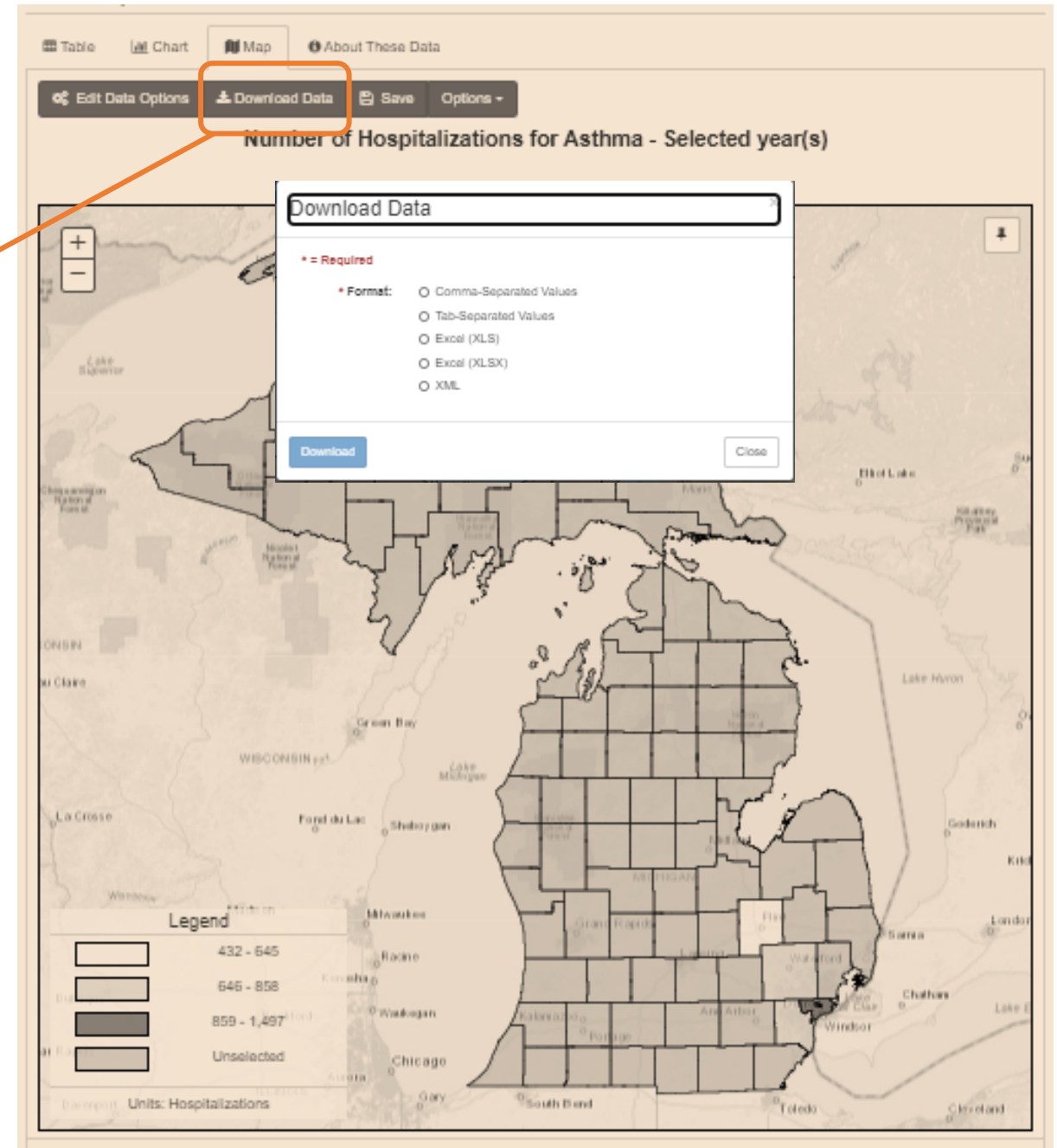
Results – Maps

- We'll click on the **Map** tab to view a map of the results.
- The year of the map is shown in the box above the map. By clicking the drop-down box, we can select a different year.
- To see a time-lapse view of the map, we can click on the play button. The map will cycle through the years we have selected.
- We can click on the counties to view more details.



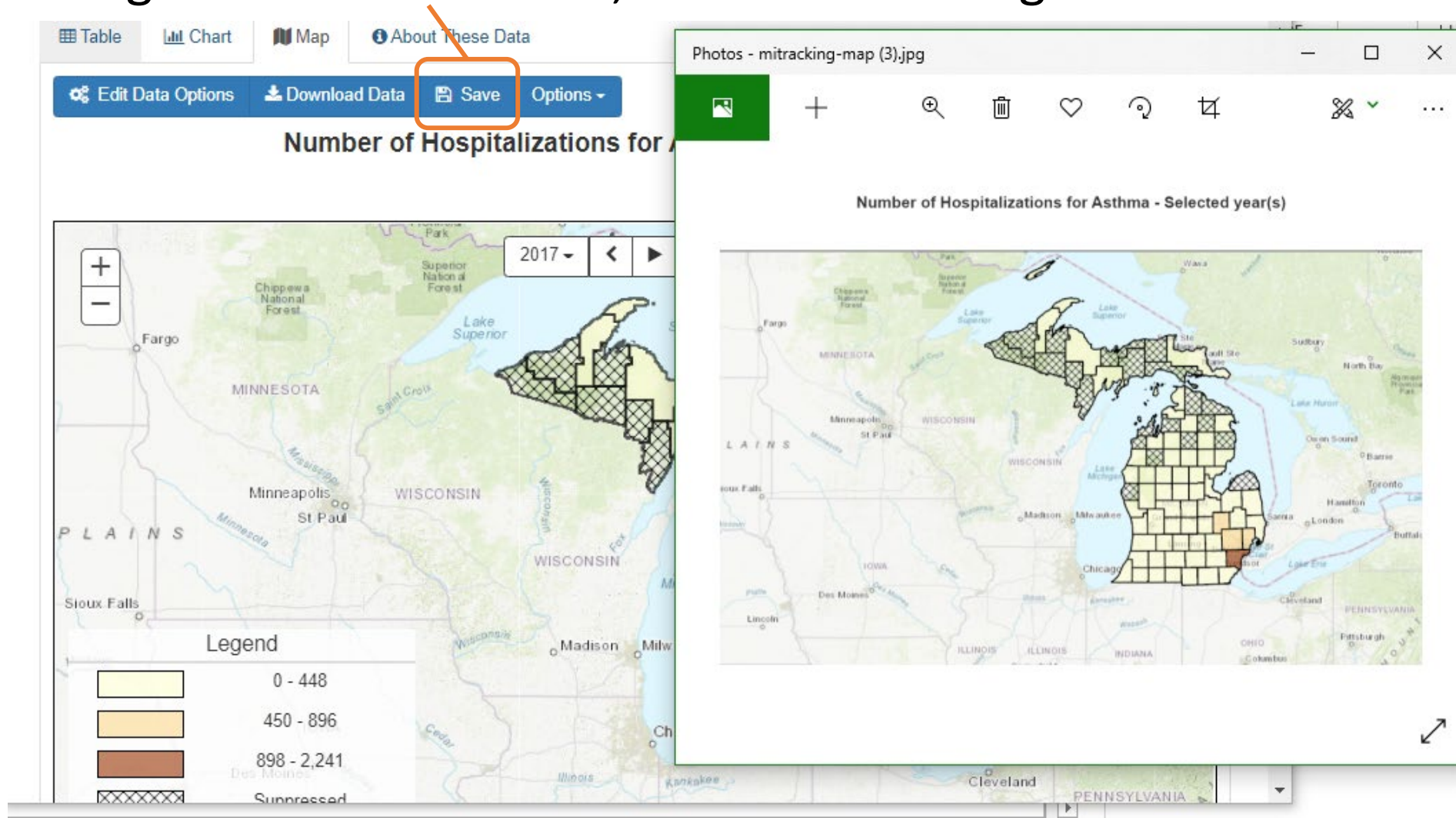
Downloading Data

- We can download data by clicking on the **Download Data** button.
- Data can be downloaded in a variety of formats.



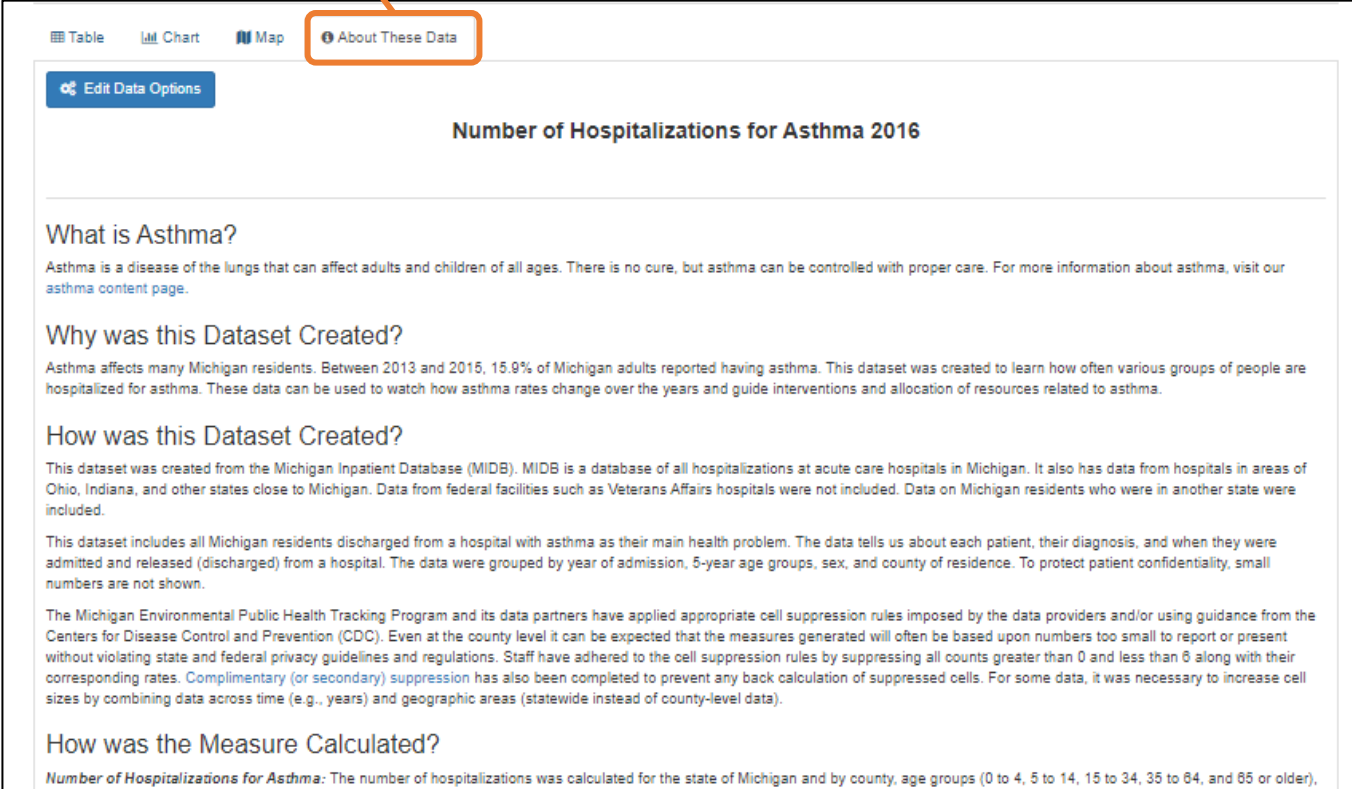
Save Images

By clicking on the **Save** button, we can save images of a chart or map.



About These Data

The **About These Data** tab has information about the data and how they were calculated.



The screenshot shows a web interface with a navigation bar at the top containing 'Table', 'Chart', 'Map', and 'About These Data'. The 'About These Data' tab is highlighted with an orange box and an arrow pointing from the text above. Below the navigation bar is a blue button labeled 'Edit Data Options'. The main content area is titled 'Number of Hospitalizations for Asthma 2016' and contains three sections of text: 'What is Asthma?', 'Why was this Dataset Created?', and 'How was this Dataset Created?'. The 'How was this Dataset Created?' section includes a sub-section 'How was the Measure Calculated?' with a detailed description of the calculation method.

Table Chart Map **About These Data**

Edit Data Options

Number of Hospitalizations for Asthma 2016

What is Asthma?

Asthma is a disease of the lungs that can affect adults and children of all ages. There is no cure, but asthma can be controlled with proper care. For more information about asthma, visit our [asthma content page](#).

Why was this Dataset Created?

Asthma affects many Michigan residents. Between 2013 and 2015, 15.9% of Michigan adults reported having asthma. This dataset was created to learn how often various groups of people are hospitalized for asthma. These data can be used to watch how asthma rates change over the years and guide interventions and allocation of resources related to asthma.

How was this Dataset Created?

This dataset was created from the Michigan Inpatient Database (MIDB). MIDB is a database of all hospitalizations at acute care hospitals in Michigan. It also has data from hospitals in areas of Ohio, Indiana, and other states close to Michigan. Data from federal facilities such as Veterans Affairs hospitals were not included. Data on Michigan residents who were in another state were included.

This dataset includes all Michigan residents discharged from a hospital with asthma as their main health problem. The data tells us about each patient, their diagnosis, and when they were admitted and released (discharged) from a hospital. The data were grouped by year of admission, 5-year age groups, sex, and county of residence. To protect patient confidentiality, small numbers are not shown.

The Michigan Environmental Public Health Tracking Program and its data partners have applied appropriate cell suppression rules imposed by the data providers and/or using guidance from the Centers for Disease Control and Prevention (CDC). Even at the county level it can be expected that the measures generated will often be based upon numbers too small to report or present without violating state and federal privacy guidelines and regulations. Staff have adhered to the cell suppression rules by suppressing all counts greater than 0 and less than 6 along with their corresponding rates. Complimentary (or secondary) suppression has also been completed to prevent any back calculation of suppressed cells. For some data, it was necessary to increase cell sizes by combining data across time (e.g., years) and geographic areas (statewide instead of county-level data).

How was the Measure Calculated?

Number of Hospitalizations for Asthma: The number of hospitalizations was calculated for the state of Michigan and by county, age groups (0 to 4, 5 to 14, 15 to 34, 35 to 64, and 65 or older),

Edit the Query

We can edit our query by:

- Clicking on **Data Options** at the top of the page
- Or the blue **Edit Data Options** button

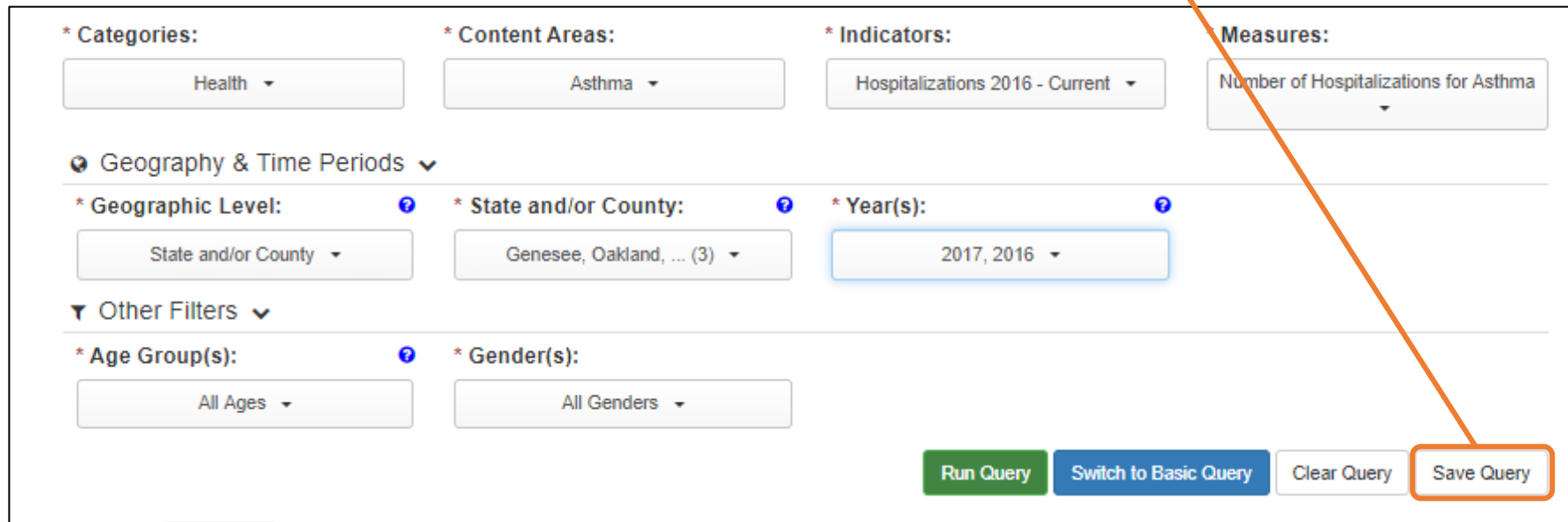
The screenshot shows a data visualization interface for 'Number of Hospitalizations for Asthma - Selected year(s)'. At the top, there are navigation options: 'Table', 'Chart', 'Map', and 'About These Data'. Below these are two buttons: 'Data Options' (highlighted with an orange box) and 'Download Data'. The main content is a table with the following data:

<u>Geographic Area</u> ⇅	<u>Year</u> ⇅	<u>Gender</u> ⇅	<u>Age Groups</u> ⇅	<u>Number of Hospitalizations</u> ⇅
Genesee	2016	All Genders	All Ages	432
Genesee	2017	All Genders	All Ages	494
Oakland	2016	All Genders	All Ages	633
Oakland	2017	All Genders	All Ages	735
Wayne (Out County)	2016	All Genders	All Ages	686
Wayne (Out County)	2017	All Genders	All Ages	744
City of Detroit	2016	All Genders	All Ages	1466
City of Detroit	2017	All Genders	All Ages	1497

At the bottom of the table, there is a pagination control with buttons for 'First', 'Previous', '1' (selected), 'Next', and 'Last'.

Saving the Query

We can save a query by clicking on the **Save Query** button and copying the link. This is a convenient way to share a query or return to it later.



The screenshot shows a query builder interface with the following sections and options:

- * Categories:** Health
- * Content Areas:** Asthma
- * Indicators:** Hospitalizations 2016 - Current
- Measures:** Number of Hospitalizations for Asthma
- Geography & Time Periods** (expanded)
 - * Geographic Level:** State and/or County
 - * State and/or County:** Genesee, Oakland, ... (3)
 - * Year(s):** 2017, 2016
- Other Filters** (expanded)
 - * Age Group(s):** All Ages
 - * Gender(s):** All Genders

At the bottom right, there are four buttons: **Run Query** (green), **Switch to Basic Query** (blue), **Clear Query** (white), and **Save Query** (white with an orange border). An orange arrow points from the text above to the **Save Query** button.

That's it!

We just ran a data query on the MiTracking portal.

The data, charts, and maps can be used in reports, grant proposals, or more!

If you have questions or would like to share how you have used the MiTracking data portal, email the Michigan Environmental Public Health Tracking Program at mdhhs-mitracking@michigan.gov.

Thank you for taking the time to watch this tutorial. Check back later to see if we have added more data or features.