

miTracking

MDHHS
Michigan Department of
Health & Human Services



Query Basics

Michigan Environmental Public Health Tracking

Welcome!



- Hello and welcome to the Michigan Environmental Public Health Tracking, or MiTracking, Query Basics tutorial. This lesson will teach you how to:
 - run a query,
 - create a table, chart, or map, and
 - save your results.
- Let's get started!

Running a query

We'll find the data portal at michigan.gov/mitracking.

Notice the three **Categories** of data: **Environmental Topics, Health Conditions, and Population** and links to their **Content Areas** on this page. Clicking on a web link will bring up a page with information about each **Content Area**.

To enter the data portal, click on the blue **Go to the Data** button from this page or from each **Content Area** page.

The screenshot shows the MDHHS website with the following structure:

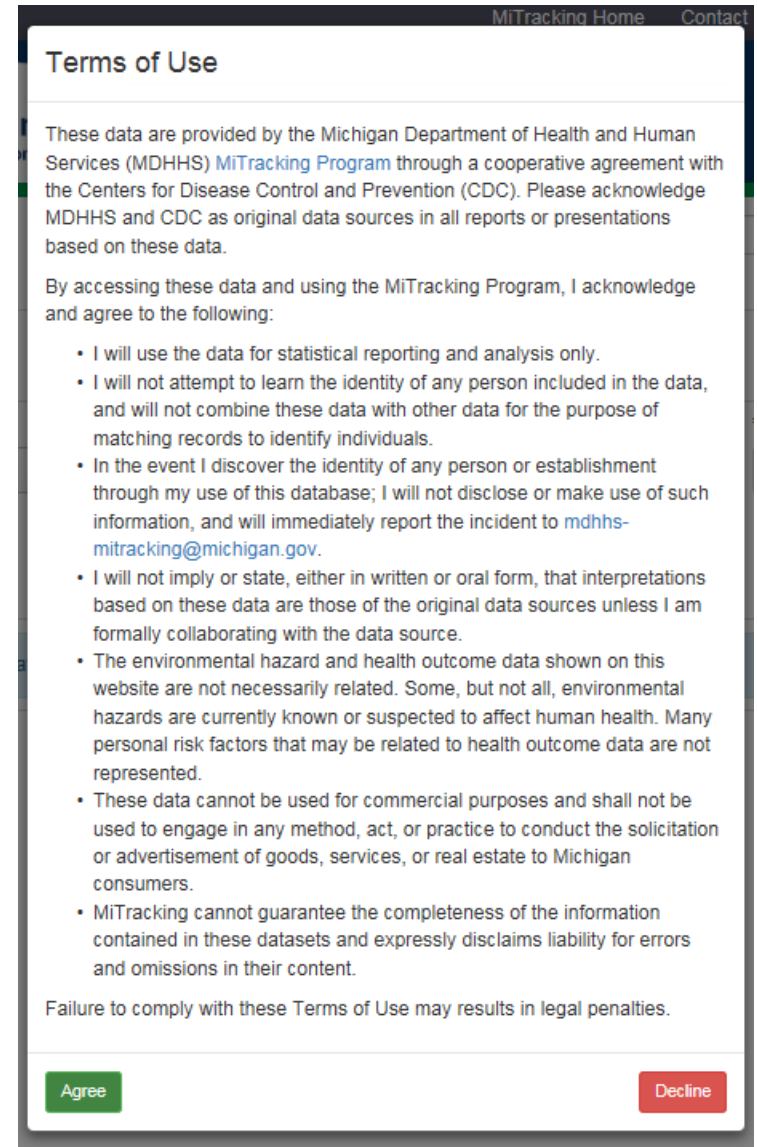
- Header:** Michigan Department of Health & Human Services (MDHHS) logo and navigation tabs: Assistance Programs, Adult & Children's Services, Safety & Injury Prevention, Keeping Michigan Healthy, Doing Business with MDHHS, Inside MDHHS.
- Left Sidebar:** A list of content areas including Safety & Injury Prevention, Children's & Adult Protective Services, Children's Trust Fund - Abuse Prevention, Domestic & Sexual Violence, Injury & Violence Prevention, Patient Safety, **Public Safety & Environmental Health** (highlighted), Bureau of EMS, Trauma & Preparedness, Crime Victim Services, Division of Emergency Preparedness & Response, Great Lakes Border Health Initiative, Michigan Sports Concussion Law, Toxic Substances, Safe Delivery, and Safe Sleep.
- Main Content:**
 - MDHHS / SAFETY & INJURY PREVENTION / PUBLIC SAFETY & ENVIRONMENTAL HEALTH / TOXIC SUBSTANCES
 - MiTracking - Michigan Environmental Public Health Tracking**
 - Welcome**
 - Text: "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."
 - Go to the Data** button (highlighted with a blue arrow).
 - Text: "The MiTracking Program is part of the Centers for Disease Control and Prevention's National Tracking Network."
 - TRACKING** logo.
 - Environmental Topics** (with image of a lake):
 - Air Quality
 - Drinking Water
 - Health Conditions** (with image of medical staff):
 - Asthma
 - Cancer
 - Carbon Monoxide Poisoning
 - Childhood Cancer
 - Childhood Lead Exposure
 - Heart Attack
 - Heat Illness
 - Reproductive and Birth Outcomes
 - Population** (with image of a crowd):
 - Population Health
- Right Sidebar:** Quick links: About, Metadata, Training, Glossary, Resources, Contact Us.

Terms of Use

The Terms of Use agreement will pop up. Read the agreement, and click “**Agree**” if you accept the terms of use.

Click “**Decline**” if you don’t accept the terms. You will be taken back to the MiTracking website.

I have read the agreement and I accept these terms, so I’ll click **Agree**.



The screenshot shows a web browser window with the title "Terms of Use". At the top right, there are links for "MiTracking Home" and "Contact". The main content area contains the following text:

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.

At the bottom of the page, there are two buttons: a green "Agree" button on the left and a red "Decline" button on the right.

Main Page

- First, we'll see the main page.
- This page shows the Data Options and Measure headings. The arrows next to the headings expand and collapse these sections.

Skip to Main Content | MiTracking Home | Contact | MDHHS Home | MI.gov

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

Search Topics

Data Options ▼

* = Required

Measure ▼

* Categories: ▼

* Content Areas: ▼

* Indicators: ▼

* Measures: ▼

MiTracking Data Portal - Version 1.1.2 - PROD
MI.gov | MiTracking Home | Contact | Policies
Copyright 2017 State of Michigan

Main Page Tips

The selections I need to make to run a query are **Categories**, **Content Areas**, **Indicators**, and **Measures**.

After I select these four, more headings will appear. We'll see them later.

The screenshot displays the MiTracking Data Portal interface. At the top right, there are navigation links: "MiTracking Home", "Contact", "MDHHS Home", and "MI.gov". The main header features the "MDHHS Michigan Department of Health & Human Services" logo and the "MiTracking Michigan Environmental Public Health Tracking" title. A search bar labeled "Search Topics" with a "Search" button is positioned on the right. Below the header, a "Data Options" section is visible, including a "Measure" dropdown menu. Four dropdown menus are highlighted with blue circles: "* Categories:" (with "Select a Category" below it), "* Content Areas:" (with "Select a Content Area" below it), "* Indicators:" (with "Select an Indicator" below it), and "* Measures:" (with "Select a Measure" below it). To the right of these dropdowns are buttons for "Run Query", "Clear Query", and "Save Query". Below the query options, there are links for "Table", "Chart", "Map", "About These Data", and "Send Feedback". A light blue box contains the instruction: "Run a query to view tabular data." The footer includes the text "MiTracking Data Portal - Version 1.1.2 - PROD" and "MI.gov | MiTracking Home | Contact | Policies Copyright 2017 State of Michigan".

Categories

The **Categories** button shows the categories of data that are available:

Environment, Health, and Population.

These are the same **Categories** we saw on the main webpage.

The screenshot displays the MiTracking Data Portal interface. At the top, there is a navigation bar with links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. Below this is a header section with the 'MDHHS Michigan Department of Health & Human Services' logo and the 'MiTracking Michigan Environmental Public Health Tracking' text. A search bar labeled 'Search Topics' is located on the right side of the header. The main content area features a 'Data Options' section with a gear icon and a dropdown arrow. Below this, a red asterisk indicates that certain fields are required. The 'Measure' dropdown menu is expanded, showing three options: 'Environment', 'Health', and 'Population'. To the right of the 'Categories' dropdown, there are four other dropdown menus: '* Content Areas:', '* Indicators:', and '* Measures:'. Each of these dropdowns has a 'Select a...' label and a dropdown arrow. Below these dropdowns are three buttons: 'Run Query', 'Clear Query', and 'Save Query'. At the bottom of the page, there is a footer section with the text 'MiTracking Data Portal - Version 1.1.2 - PROD', 'MI.gov | MiTracking Home | Contact | Policies', and 'Copyright 2017 State of Michigan'.

Content Areas

- The **Content Area** selections are different for each **Category**.

MiTracking Home Contact MDHHS Home MI.gov

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

Search Topics Search

Data Options

* = Required

Measure

* Categories: Environment

* Content Areas: Select a Content Area

* Indicators: Select an Indicator

Table Chart Map

Air Quality
Community Drinking Water

Run a query to view tabular data.

MiTracking Home

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

Search Topics

Data Options

* = Required

Measure

* Categories: Population

* Content Areas: Select a Content Area

* Indicators: Select an Indicator

Table Chart Map

Homes

Run a query to view tabular data.

MiTracking Home Contact MDHHS Home MI.gov

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

Search Topics Search

Data Options

* = Required

Measure

* Categories: Health

* Content Areas: Select a Content Area

* Indicators: Select an Indicator

* Measures: Select a Measure

Table Chart Map

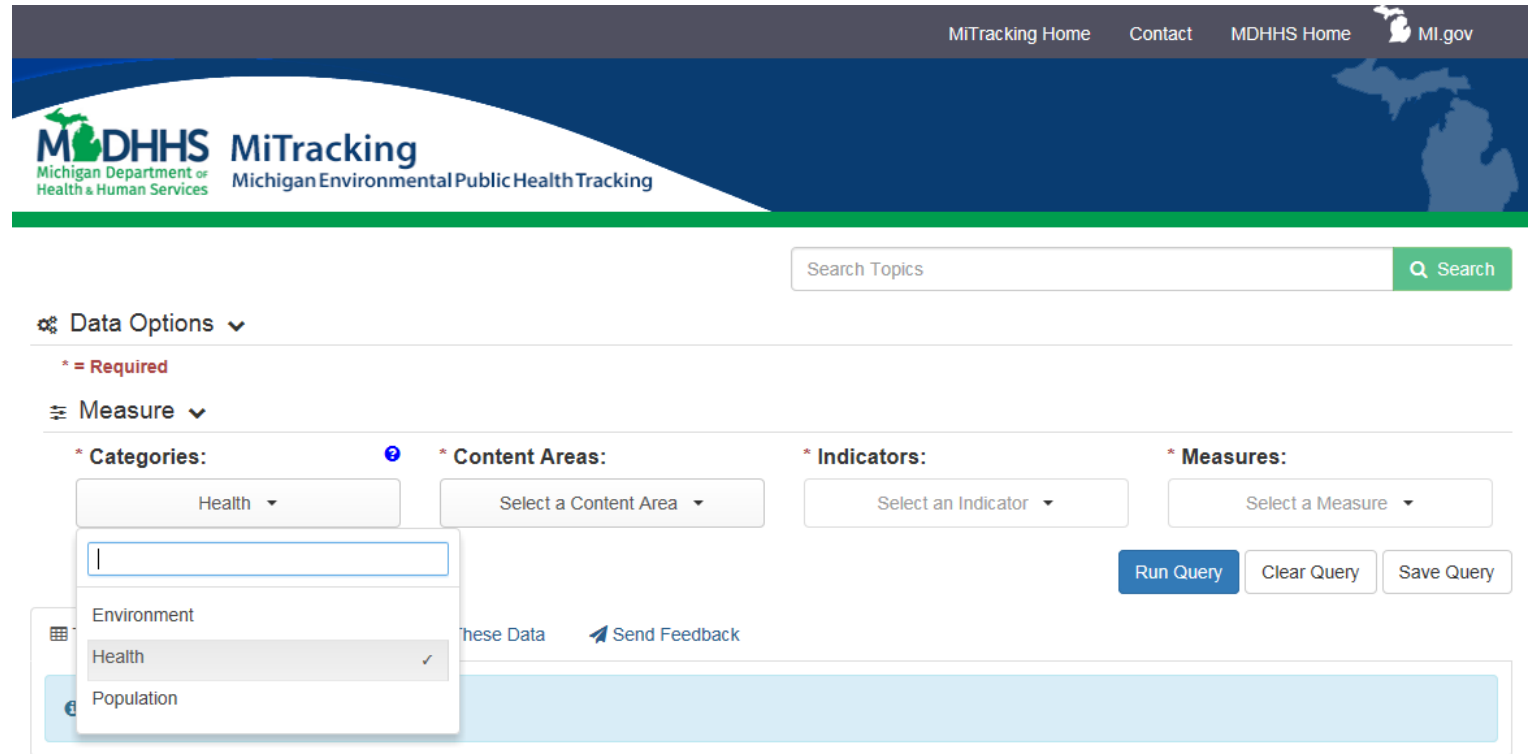
Asthma
Cancer
Carbon Monoxide Poisoning
Childhood Cancer
Childhood Lead Exposure
Heart Attacks
Heat Illness
Reproductive and Birth Outcomes

Run Query Clear Query Save Query

Run a query to view tabular data.

Start a Query

I'm going to run a query to find the number of people in Michigan who have been diagnosed with lung cancer over a 5-year period. I'll click on **Select Category** and choose **Health**.



The screenshot shows the MiTracking Data Portal interface. At the top, there is a navigation bar with links for "MiTracking Home", "Contact", "MDHHS Home", and "MI.gov". Below this is the MDHHS logo and the text "MiTracking Michigan Environmental Public Health Tracking". A search bar labeled "Search Topics" is located on the right. The main content area is titled "Data Options" and includes a "Measure" dropdown menu. Under "Measure", there are four required fields: "Categories", "Content Areas", "Indicators", and "Measures". The "Categories" dropdown menu is open, showing options for "Environment", "Health" (which is selected with a checkmark), and "Population". Below the dropdowns are buttons for "Run Query", "Clear Query", and "Save Query".

Choose a Content Area

Now I need to select a **Content Area**. I'll choose **Cancer**.

The screenshot shows the MiTracking Data Portal interface. At the top right, there are links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. The main header features the MDHHS logo and the text 'MiTracking Michigan Environmental Public Health Tracking'. Below the header is a search bar labeled 'Search Topics' with a 'Search' button. A 'Data Options' dropdown menu is visible. Underneath, a red asterisk indicates a required field. The 'Measure' dropdown menu is expanded, showing four options: '* Categories:' (Health), '* Content Areas:' (Cancer), '* Indicators:' (Select an Indicator), and '* Measures:' (Select a Measure). Below these dropdowns are three buttons: 'Run Query', 'Clear Query', and 'Save Query'. At the bottom of the form, there are icons for 'Table', 'Chart', 'Map', 'About These Data', and 'Send Feedback'. A light blue message box at the bottom of the form contains the text: 'Run a query to view tabular data.'

Indicators

I'll select a cancer **Indicator** by using the scroll bar to find **Lung and Bronchus Cancer** and **Bronchus Cancer**.

The screenshot shows the MiTracking website interface. At the top, there are navigation links for 'MiTracking Home', 'Contact', and 'MDHHS Home' along with the 'MI.gov' logo. The main header features the 'MDHHS Michigan Department of Health & Human Services' logo and the 'MiTracking Michigan Environmental Public Health Tracking' title. A search bar labeled 'Search Topics' is located on the right. Below the header, there are several filter sections: 'Data Options', '* = Required', 'Measure', '* Categories:' (set to 'Health'), '* Content Areas:' (set to 'Cancer'), '* Indicators:' (set to 'Lung and Bronchus Cancer Incidence'), and '* Measures:' (set to 'Select a Measure'). A dropdown menu is open under the 'Indicators' section, listing various cancer types with 'Lung and Bronchus Cancer Incidence' selected. At the bottom, there are buttons for 'Run a query', 'Clear Query', and 'Save Query'. The footer contains the text 'MiTracking Data Portal - View', 'MI.gov | MiTracking Home | Contact | Policies', and 'Copyright 2017 State of Michigan'.

Measures

Now I need to choose a **Measure**.

I'll choose **5-Year Number of Cases of Lung Cancer**.

Once a **Measure** has been selected, more headings will appear.

The screenshot shows the MiTracking web application interface. At the top, there is a navigation bar with links for "MITracking Home", "Contact", "MDHHS Home", and "MI.gov". The MDHHS logo is prominently displayed. Below the navigation bar is a search bar labeled "Search Topics" with a "Search" button. The main content area is titled "Data Options" and contains several sections for configuring a query:

- Measure:** A dropdown menu is open, showing a list of measures. The selected measure is "5-Year Number of Cases of Lung Cancer". Other visible measures include "5-Year Age-Adjusted Rate of Lung Cancer per 100,000 people", "Annual Age-Adjusted Rate of Lung Cancer per 100,000 people", and "Annual Number of Cases of Lung Cancer".
- Categories:** "Health"
- Content Areas:** "Cancer"
- Indicators:** "Lung and Bronchus Cancer Incidence"
- Geography & Time Periods:**
 - Geographic Level:** "Select Geographic Level"
 - Geographic Area:** "Select Geographic Area"
 - 5-Year Aggregate(s):** "Select 5-Year Aggregate(s)"
- Other Filters:**
 - Gender(s):** "All Genders"
 - Race(s):** "All Races"

At the bottom of the configuration area, there are buttons for "Run Query", "Clear Query", and "Save Query". Below this is a navigation bar with options for "Table", "Chart", "Map", "About These Data", and "Send Feedback". A light blue banner at the bottom of the configuration area contains the text: "Run a query to view tabular data."

More Selections

I need to choose the **Geographic Level, Geographic Area, 5-Year Aggregate, Gender, and Race** that I want to include in my query.

I'll select **State and/or County** as the **Geographic Level**. Notice that I could also choose my **Local Health Department**.

The screenshot displays the MiTracking Data Portal interface. At the top, there are navigation links for "MiTracking Home", "Contact", "MDHHS Home", and "MI.gov". The main header features the "MDHHS Michigan Department of Health & Human Services" logo and the "MiTracking Michigan Environmental Public Health Tracking" title. A search bar is located in the top right corner.

The main content area is titled "Data Options" and includes a "Search Topics" input field with a "Search" button. Below this, there are several sections for configuring a query:

- Measure:** Includes fields for "Categories" (set to "Health"), "Content Areas" (set to "Cancer"), "Indicators" (set to "Lung and Bronchus Cancer Incidence"), and "Measures" (set to "5-Year Number of Cases of Lung Cancer").
- Geography & Time Periods:** Includes fields for "Geographic Level" (set to "State and/or County"), "Geographic Area(s)" (set to "Select Geographic Area(s)"), and "5-Year Aggregate(s)" (set to "Select 5-Year Aggregate(s)").
- Race(s):** A dropdown menu is set to "All Races".

A dropdown menu is open for the "Geographic Level" field, showing two options: "State and/or County" (selected with a checkmark) and "Local Health Departments".

At the bottom right of the form, there are three buttons: "Run Query", "Clear Query", and "Save Query".

Below the form, there are navigation options: "Table", "Chart", "Map", "About These Data", and "Send Feedback". A light blue banner at the bottom of the form area contains the text: "Run a query to view tabular data."

The footer of the page includes the text: "MiTracking Data Portal - Version 1.1.2 - PROD", "MI.gov | MiTracking Home | Contact | Policies", and "Copyright 2017 State of Michigan".

Geographic Area

I'll choose **Eaton** and **Ingham Counties** from the list of **Geographic Areas**.

The screenshot displays the MiTracking web application interface. At the top, there is a navigation bar with links for "MiTracking Home", "Contact", "MDHHS Home", and "MI.gov". The MDHHS logo and "MiTracking Michigan Environmental Public Health Tracking" are also visible. A search bar labeled "Search Topics" is present. Below the navigation bar, there are several filter sections:

- Data Options**: A dropdown menu.
- Measure**: A dropdown menu.
- Categories**: A dropdown menu set to "Health".
- Content Areas**: A dropdown menu set to "Cancer".
- Indicators**: A dropdown menu set to "Lung and Bronchus Cancer Incidence".
- Measures**: A dropdown menu set to "5-Year Number of Cases of Lung Cancer".
- Geography & Time Periods**: A dropdown menu.
- Geographic Level**: A dropdown menu set to "State and/or County".
- Geographic Area(s)**: A dropdown menu set to "Eaton, Ingham". A list of counties is shown below, with "Ingham" selected and marked with a checkmark. The list includes Grand Traverse, Gratiot, Hillsdale, Houghton, Huron, Ingham, Ionia, Iosco, Iron, and Isabella.
- 5-Year Aggregate(s)**: A dropdown menu set to "Select 5-Year Aggregate(s)".
- Other Filters**: A dropdown menu.
- Gender(s)**: A dropdown menu set to "All Genders".

At the bottom of the filter section, there are buttons for "Run Query", "Clear Query", and "Save Query". A "Table" view is selected, and a message says "Run a query to view tabular data." The footer contains the text "MI.gov | MiTracking Home | Contact | Policies" and "Copyright 2017 State of Michigan".

Time Period

Now I'll select a time period. I'll choose the years **2009-2013**.

The screenshot displays the MiTracking web application interface. At the top, there is a navigation bar with links for "MiTracking Home", "Contact", "MDHHS Home", and "MI.gov". The MDHHS logo and "MiTracking Michigan Environmental Public Health Tracking" are prominently displayed. A search bar is located in the upper right corner.

The main content area is titled "Data Options" and includes a "Measure" section with dropdowns for "Categories" (Health), "Content Areas" (Cancer), "Indicators" (Lung and Bronchus Cancer Incidence), and "Measures" (5-Year Number of Cases of Lung Cancer). Below this is the "Geography & Time Periods" section, which includes dropdowns for "Geographic Level" (State and/or County), "Geographic Area(s)" (Eaton, Ingham), and "5-Year Aggregate(s)" (2009 - 2013). A dropdown menu is open for the "5-Year Aggregate(s)" field, showing a list of time periods from 2001-2005 to 2009-2013, with "2009 - 2013" selected and marked with a checkmark.

Other filters include "Gender(s)" (All Genders) and "Race(s)" (All Races). At the bottom of the interface, there are buttons for "Table", "Chart", "Map", "About These Data", and "Send Feedback". A message box prompts the user to "Run a query to view tabular data." The footer contains the text "MiTracking Data Portal - Version 1.1.2 - PROD", "MI.gov | MiTracking Home | Contact | Policies", and "Copyright 2017 State of Michigan".

Other Filters

Some **Measures** have additional filters. You'll see the **Gender** and **Race** filters are available for this cancer query.

All Genders and **All Races** are automatically selected, but I could choose any available combination for these filters.

I'll run my query for **All Genders** and **All Races**.

The screenshot displays the MiTracking web application interface. At the top, there are navigation links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. The main header features the MDHHS logo and the text 'MiTracking Michigan Environmental Public Health Tracking'. A search bar is located in the top right corner with the text 'Search Topics' and a 'Search' button.

The main content area is organized into several sections:

- Data Options**: A dropdown menu.
- Measure**: A dropdown menu.
- Categories**: A dropdown menu set to 'Health'.
- Content Areas**: A dropdown menu set to 'Cancer'.
- Indicators**: A dropdown menu set to 'Lung and Bronchus Cancer Incidence'.
- Measures**: A dropdown menu set to '5-Year Number of Cases of Lung Cancer'.
- Geography & Time Periods**: A dropdown menu.
- Geographic Level**: A dropdown menu set to 'State and/or County'.
- Geographic Area(s)**: A dropdown menu set to 'Eaton, Ingham'.
- 5-Year Aggregate(s)**: A dropdown menu set to '2009 - 2013'.
- Other Filters**: A dropdown menu.
- Gender(s)**: A dropdown menu set to 'All Genders'.
- Race(s)**: A dropdown menu set to 'All Races'.

At the bottom right, there are buttons for 'Run Query', 'Clear Query', and 'Save Query'. A 'Send Feedback' link is also present. A footer at the bottom of the page contains the text: 'MiTracking Data Portal - Version 1.1.2 - PROD', 'MI.gov | MiTracking Home | Contact | Policies', and 'Copyright 2017 State of Michigan'.

Running the Query

I've made my selections. If I wanted to start over, I could click on the **Clear Query** button to clear my selections.

But I'm ready to run the query, so I'll click on the **Run Query** button.

The screenshot displays the MiTracking web application interface. At the top, there is a navigation bar with links for 'MITracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. Below this is the MDHHS logo and the text 'MiTracking Michigan Environmental Public Health Tracking'. A search bar labeled 'Search Topics' is located in the upper right. The main content area is organized into several sections, each with a dropdown arrow:

- Data Options**: A red asterisk indicates a required field.
- Measure**: Contains four dropdown menus: 'Categories' (set to 'Health'), 'Content Areas' (set to 'Cancer'), 'Indicators' (set to 'Lung and Bronchus Cancer Incidence'), and 'Measures' (set to '5-Year Number of Cases of Lung Cancer').
- Geography & Time Periods**: Contains three dropdown menus: 'Geographic Level' (set to 'State and/or County'), 'Geographic Area(s)' (set to 'Eaton, Ingham'), and '5-Year Aggregate(s)' (set to '2009 - 2013').
- Other Filters**: Contains two dropdown menus: 'Gender(s)' (set to 'All Genders') and 'Race(s)' (set to 'All Races').

At the bottom right of the filter section, three buttons are visible: 'Run Query' (highlighted with a blue oval), 'Clear Query', and 'Save Query'. Below the filters, there is a row of navigation options: 'Table', 'Chart', 'Map', 'About These Data', and 'Send Feedback'. A light blue banner at the bottom of the filter section contains the text 'Run a query to view tabular data.'

The footer of the page includes the text: 'MiTracking Data Portal - Version 1.1.2 - PROD', 'MI.gov | MiTracking Home | Contact | Policies', and 'Copyright 2017 State of Michigan'.

Results

Now I can view my results.
The table shows the number of cases of **lung cancer** in **Eaton and Ingham Counties** for the years **2009-2013**.

The screenshot shows the MiTracking Data Portal interface. At the top, there are navigation links for 'MITracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. The MDHHS logo is prominently displayed. A search bar is located in the top right corner. Below the search bar, there are 'Data Options' and navigation tabs for 'Table', 'Chart', 'Map', 'About These Data', and 'Send Feedback'. Two buttons, 'Edit Data Options' and 'Download Data', are visible. The main content area displays a table titled '5-Year Number of Cases of Lung Cancer - 5-Year Aggregate(s) 2009 - 2013'. The table has columns for 'Area', 'Years', 'Gender', 'Race', and 'Number of Cases'. Two rows are shown: Eaton (341 cases) and Ingham (779 cases). A pagination control shows '1' of 2 records. A disclaimer at the bottom explains data suppression rules.

Area	Years	Gender	Race	Number of Cases
Eaton	2009 - 2013	All Genders	All Races	341
Ingham	2009 - 2013	All Genders	All Races	779

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MI.gov | MITracking Home | Contact | Policies
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Chart

I'll click on the **Chart** tab to view my results in a bar chart. I can also hover my cursor over the bars to find the number of cases.

Some features can be edited by clicking the buttons above the chart.

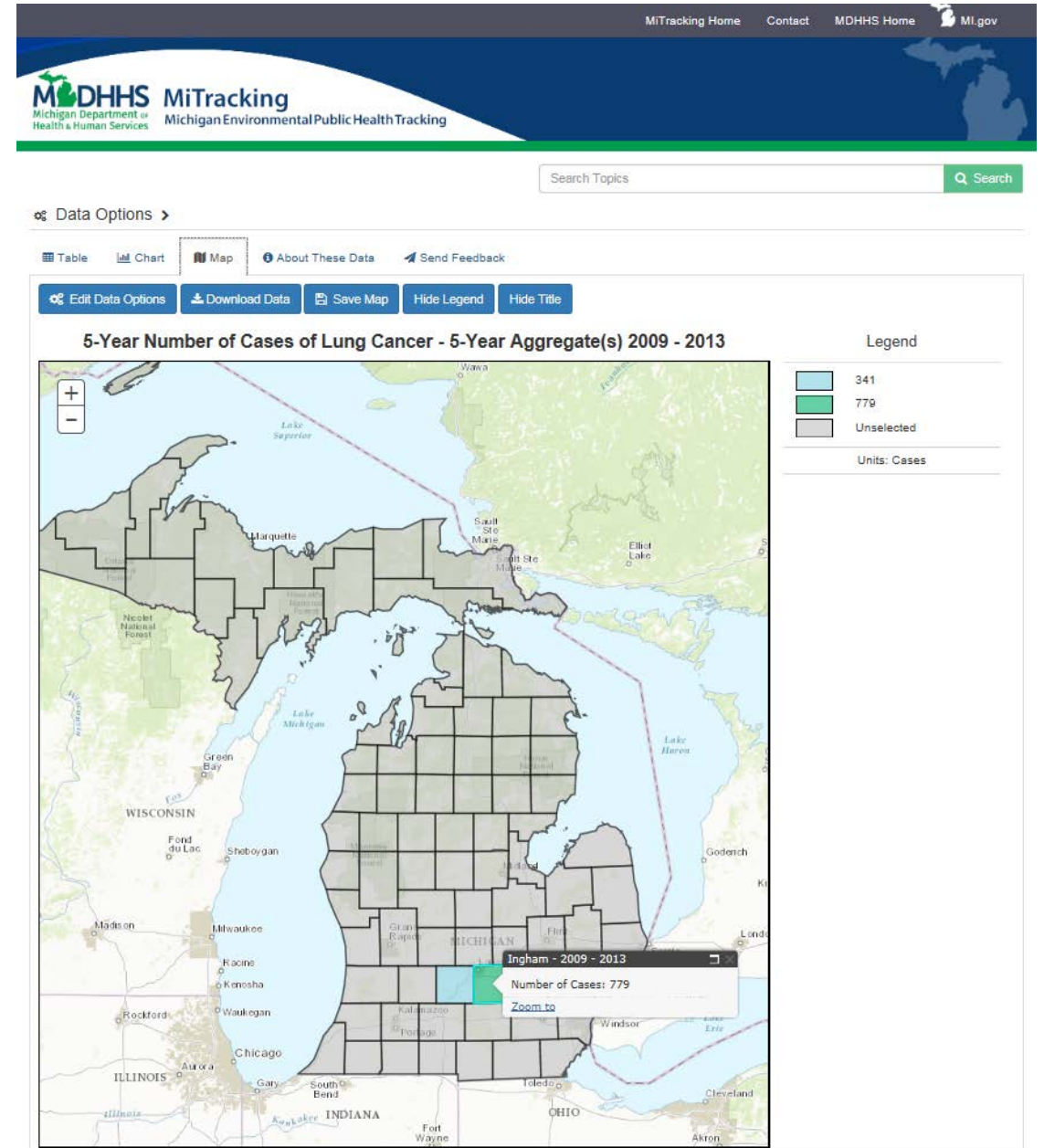


Maps

I'll click on the **Map** tab to view a map of my results.

I can click on the counties included in my query to learn the number of cases for the time period I've selected.

Maps are not available for all queries. If I get an error message when I click on the map tab, I'll need to edit my query.



Downloading Data

I can download the data from my query as Excel, XML, or CSV files. Just click on the **Download Data** button.

The screenshot displays the MiTracking interface. A 'Download Data' dialog box is open, showing options for data format: Comma-Separated Values, Tab-Separated Values, Excel (XLS), Excel (XLSX), and XML. The 'Download' button is highlighted. Below the dialog, a map of Michigan is shown with a tooltip for Ingham County, indicating 779 cases for the period 2009-2013. The legend on the right shows color-coded categories for 341 (light blue), 779 (green), and Unselected (grey). The map title is '5-Year Number of Cases of Lung Cancer - 5-Year Aggregate(s) 2009 - 2013'. At the bottom, there is a disclaimer: '** Indicates Suppressed Data. Staff have adhered to the cell suppression rules by suppressing all counts and rates greater than 0 and less than 6. Age-adjusted rates based on counts less than 30 have been suppressed in order to provide reliable rates only. Complimentary suppression has also been completed to prevent any back calculation of suppressed cells.'

Save Images

I can print or save an image of a chart or map by clicking on the **Save Map** or **Save Chart** buttons.

The screenshot displays the MiTracking website interface. At the top, there is a navigation bar with links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. Below this is the MiTracking logo and the text 'Michigan Environmental Public Health Tracking'. A search bar is located on the right side of the header.

The main content area features a 'Data Options' dropdown menu and several tabs: 'Table', 'Chart', 'Map', 'About These Data', and 'Send Feedback'. The 'Chart' tab is selected, and a 'Save Chart' button is visible among other options like 'Edit Data Options', 'Download Data', 'Hide Legend', 'Hide Title', and 'Hide Values'.

The chart is titled '5-Year Number of Cases of Lung Cancer - 5-Year Aggregate(s) 2009 - 2013'. It is a horizontal bar chart with 'Area' on the y-axis and 'Number of Cases (2009 - 2013)' on the x-axis. The x-axis ranges from 0 to 1,000 with major ticks every 250 units. Two bars are shown: one for 'Eaton' with a value of 341, and one for 'Ingham' with a value of 779. A legend on the right indicates that the green bars represent 'Number of Cases'.

At the bottom of the chart area, there is a note: '** Indicates Suppressed Data'. Below this, a small disclaimer states: 'Staff have adhered to the cell suppression rules by suppressing all counts and rates greater than 0 and less than 6. Age-adjusted rates based on counts less than 20 have been suppressed in order to provide reliable rates only. Complimentary suppression has also been completed to prevent any back calculation of suppressed cells.'

At the bottom of the page, a file dialog box is open, asking: 'Do you want to open or save mitracking-chart.jpg (21.4 KB) from mitracking.state.mi.us?'. The dialog has 'Open', 'Save', and 'Cancel' buttons, along with a close button (X).

About These Data

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

The screenshot shows the MiTracking website interface. At the top, there is a navigation bar with links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. Below this is the MiTracking logo and the text 'Michigan Department of Health & Human Services' and 'Michigan Environmental Public Health Tracking'. A search bar is located on the right side of the header. The main content area is titled '5-Year Number of Cases of Lung Cancer' and contains several sections of text explaining the data. The sections are: 'What is Lung Cancer?', 'Why was this dataset created?', 'How was this dataset created?', 'How were the measures calculated?', and 'What are the Limitations of these Data?'. Each section provides detailed information about the data collection process, including the use of the Michigan Cancer Surveillance Program (MCSP) and the Michigan Department of Health and Human Services (MDHHS) Division of Vital Records and Health Statistics (DVRHS). The 'How were the measures calculated?' section explains the calculation of annual age-adjusted rates per 100,000 people. The 'What are the Limitations of these Data?' section lists several factors that can affect the accuracy of the data, such as changes in cancer detection techniques over time and differences in medical care and diet across geographic areas.

MITracking Home Contact MDHHS Home MI.gov

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

Search Topics Search

Data Options >

Table Chart Map About These Data Send Feedback

Edit Data Options

5-Year Number of Cases of Lung Cancer

What is Lung Cancer?

Lung cancer forms in the tissues of the lung, usually in the cells lining the air passages. When someone has lung cancer, the body may produce one or many tumors in one or both lungs. For more about cancer, visit our [cancer content page](#).

Why was this dataset created?

Cancer is a leading cause of death in Michigan, second only to heart disease. Studies have found links between certain cancers and some chemicals and substances used at home, in the workplace, or in the environment. These links do not rule out other causes, but they do suggest exposure to these substances may increase the risk of some cancers.

This dataset was created to learn how often a cancer occurs for various groups of people (for example, females).

How was this dataset created?

Data from the Michigan Cancer Surveillance Program (MCSP) were used to create this dataset through the Michigan Department of Health and Human Services (MDHHS), Division of Vital Records and Health Statistics (DVRHS). Any facility diagnosing and/or treating a cancer patient is required to submit reports of diagnosed cancers. In addition, all hospitals, clinical laboratories, physician offices, dentists, and clinic directors who have knowledge of a case of cancer are required to report the case to MDHHS.

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 and rates greater than 0 and less than 6. Age-adjusted rates based on counts less than 20 have been suppressed in order to provide reliable rates only. Complimentary 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 were the measures calculated?

Annual Number of Cases: All new, unique cases of cancer for people living in Michigan were counted. That number was filtered by sex and race. These steps were repeated for each available year of data.

Annual Age-Adjusted Rate per 100,000: All new, unique cases of cancer for people living in Michigan were counted. That number was divided by the total number of people living in Michigan, and filtered by sex and race. Because cancer can be rare, the result was multiplied by 100,000 to get the number of new cases for every 100,000 people. These steps were repeated for each available year of data.

Sometimes, rates are adjusted for age because some diseases affect certain people more than others. For example, many cancers are more common among older people than younger people. Two groups that are being compared (for example, two counties) could have different rates because one has a much larger group of older people than the other. To fix this, we calculate "age-adjusted rates."

5-year Number of Cases: All new, unique cases of cancer for people living in Michigan and each Michigan county were counted. Those numbers were filtered by sex and race. These steps were repeated for each available 5-year range of data.

To protect individuals, many years of data are sometimes grouped together because the number of cases per year are too small to provide to the public.

5-year Age-Adjusted Rate: All new, unique cases of cancer for people living in Michigan were counted. That number was divided by the total number of people living in Michigan, and filtered by sex and race. Because cancer can be rare, the result was multiplied by 100,000 to get the number of new cases for every 100,000 people. For example, all new, unique cases of bladder cancer for people living in each Michigan county were counted and divided by the total number of people living in that county. These steps were repeated for each available 5-year range of data.

To protect individuals, many years of data are sometimes grouped together because the number of cases per year are too small to provide to the public.

Sometimes, rates are adjusted for age because some diseases affect certain people more than others. For example, many cancers are more common among older people than younger people. Two groups that are being compared (for example, two counties) could have different rates because one has a much larger group of older people than the other. To fix this, we calculate "age-adjusted rates."

What are the Limitations of these Data?

- Cases or rates of cancer may change over time for many reasons. For example, a new and better technique may be developed to detect a specific cancer. Because of this technique, more cases will be detected than by using the old technique, but this would not mean that there are more cases of cancer.
- Cases or rates may change over time or be different for geographic areas for many reasons. Genetics, behaviors, and other personal characteristics such as access to medical care and diet can impact the likelihood of developing a cancer.
- There are many things that may help to cause cancer. The data on the portal cannot tell us the cause of cancer.

For more information about these data, read the [full metadata](#).

Edit the query

I can edit my query by:

- clicking on **Data Options dropdown** at the top of the page.
- or the blue **Edit Data Options** button.

The screenshot displays the MiTracking Data Portal interface. At the top, there is a navigation bar with links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. The main header features the MDHHS logo and the text 'MiTracking Michigan Environmental Public Health Tracking'. A search bar is located on the right side of the header.

The main content area is divided into several sections for query configuration:

- Data Options**: A dropdown menu is highlighted with a green circle.
- Measure**: A dropdown menu.
- Categories**: A dropdown menu set to 'Health'.
- Content Areas**: A dropdown menu set to 'Cancer'.
- Indicators**: A dropdown menu set to 'Lung and Bronchus Cancer Incidence'.
- Measures**: A dropdown menu set to '5-Year Number of Cases of Lung Cancer'.
- Geography & Time Periods**: A dropdown menu.
- Geographic Level**: A dropdown menu set to 'State and/or County'.
- Geographic Area(s)**: A dropdown menu set to 'Eaton, Ingham'.
- 5-Year Aggregate(s)**: A dropdown menu set to '2009 - 2013'.
- Other Filters**: A dropdown menu.
- Gender(s)**: A dropdown menu set to 'All Genders'.
- Race(s)**: A dropdown menu set to 'All Races'.

At the bottom right of the configuration section, there are buttons for 'Run Query', 'Clear Query', and 'Save Query'.

Below the configuration section, there is a navigation bar with options: 'Table', 'Map', 'Chart', 'About These Data', and 'Send Feedback'. The 'Table' option is selected.

Two buttons are highlighted with green circles: 'Edit Data Options' and 'Download Data'.

The main data table is titled '5-Year Number of Cases of Lung Cancer - 5-Year Aggregate(s) 2009 - 2013'. It has columns for 'Area', 'Years', 'Gender', 'Race', and 'Number of Cases'. The table contains two rows of data:

Area	Years	Gender	Race	Number of Cases
Eaton	2009 - 2013	All Genders	All Races	341
Ingham	2009 - 2013	All Genders	All Races	779

Below the table, there is a pagination control showing 'First', 'Previous', '1', 'Next', and 'Last'. It also indicates 'Displaying records 1 - 2 of 2'.

At the bottom of the page, there is a footer with the text: 'MiTracking Data Portal - Version 1.1.2 - PROD' and 'MI.gov | MiTracking Home | Contact | Policies Copyright 2017 State of Michigan'.

Saving the Query

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

The screenshot displays the MiTracking Michigan Environmental Public Health Tracking interface. At the top, there are navigation links for 'MiTracking Home', 'Contact', 'MDHHS Home', and 'MI.gov'. The main header features the 'MDHHS Michigan Department of Health & Human Services' logo and the 'MiTracking Michigan Environmental Public Health Tracking' title. A search bar is located in the top right corner.

The interface is divided into several sections for query configuration:

- Data Options**: Includes a search bar and a 'Search' button.
- Measure**: Contains four required fields: 'Categories' (set to 'Health'), 'Content Areas' (set to 'Cancer'), 'Indicators' (set to 'Lung and Bronchus Cancer Incidence'), and 'Measures' (set to '5-Year Number of Cases of Lung Cancer').
- Geography & Time Periods**: Contains three required fields: 'Geographic Level' (set to 'State and/or County'), 'Geographic Area(s)' (set to 'Eaton, Ingham'), and '5-Year Aggregate(s)' (set to '2009 - 2013').
- Other Filters**: Contains two required fields: 'Gender(s)' (set to 'All Genders') and 'Race(s)' (set to 'All Races').

At the bottom right, there are three buttons: 'Run Query', 'Clear Query', and 'Save Query'. A tooltip is visible over the 'Save Query' button, displaying the text 'To share your query results use this link:' followed by a 'Copy' button and the URL 'https://mitracking.state.mi.us/?bookmark'. A 'close' button is located at the bottom right of the tooltip.

At the bottom of the page, there is a footer with the text: 'MiTracking Data Portal - Version 1.1.2 - PROD', 'MI.gov | MiTracking Home | Contact | Policies', and 'Copyright 2017 State of Michigan'.

That's it!

I just ran a data query on the MiTracking portal. Now I can include the data, chart, and map in my report. I can also find more information about cancer on the [MiTracking website](#).

You can run different queries for the **Categories** and their **Content Areas** on the MiTracking portal. They may have different indicators, measures, and filters.

If you have questions, call the Michigan Environmental Public Health Tracking Program at 800-648-6942 or email us 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.

Thank You!



Find MiTracking at www.michigan.gov/mitracking

Email: mdhhs-mitracking@michigan.gov

Phone: 800-648-6942