

Procedure to get leading causes of death from the Ohio Public Health Data Warehouse

All deaths in Ohio are grouped into one of 50 leading cause categories. The categories are defined by the National Center for Health Statistics (NCHS) (see for example Table B. in [National Vital Statistics Reports: Deaths, Final Data for 2014](https://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65_04.pdf) at https://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65_04.pdf).

Lists such as “top ten causes of death” should be based on the same categories used by NCHS. Such cause of death rankings should be based on the total count of deaths in the category. The Ohio Public Health Data Warehouse provides users the ability to generate such mortality tabulations by the leading cause categories. This tip sheet shows how to obtain a leading cause tabulation from the warehouse.

Open the Ohio Public Health Warehouse in your browser:

<http://publicapps.odh.ohio.gov/EDW/DataCatalog>

then click the mortality dataset link:



The screenshot shows the Ohio Public Health Data Warehouse interface. At the top left is the Ohio Department of Health logo. The main heading is "Ohio Public Health Data Warehouse". Below the heading is a navigation bar with "Home" and "Help" links. A filter section allows users to filter by category (set to "All") and enter keywords. A "Filter" button is present. Below the filter is a table of datasets. The "Mortality" dataset is highlighted with a red arrow. The table also shows the last updated date for each dataset. At the bottom right, there are navigation controls for "1 of 1" items and "Items per Page: 10".

CATEGORY	NAME	LAST UPDATED
Birth Data	Maternal and Child Health (MCH) Block Grant Reports Partial MCH Block Grant reporting forms for the most recent reporting year. These reports are select health indicators of Ohio's mothers, women, children and youth.	07/25/2015
Birth Data	Ohio Resident Live Births (2006-Present) Ohio Resident Live Births (2006-present)	04/09/2017
Cancer Data	Cancer Incidence Data (1996-2013) Official end of year file	04/27/2016
Data Quality	Hospital Charge and Utilization Data (2006-2011) Results from the "Survey of Annual Hospital Disclosure, Non-Government Patients, Most Frequently Treated Diagnosis Related Groups"	05/27/2014
Death Data	Mortality Ohio Resident Mortality Data (2007-Present)	04/14/2017
Population	Population Data For Calculating Rates Bridged-Race County Population data from National Center for Health Stastics (NCHS) to calculate rates at ODH.	06/30/2016

This will open the mortality dataset in the warehouse. You will be creating a tabulation; click on the “REPORTS” tab:



Ohio Public Health Data Warehouse

Home | Help

Mortality

Category: Death Data
Latest Update: 4/14/2017
Description: Ohio Resident Mortality Data (2007-Present)
Contact Email: VitalData@odh.ohio.gov

Details

Charts / Graphs

Reports

This dataset contains rates and counts of deaths among Ohio residents from 2007 to present and is updated on a daily basis.

Public availability of mortality data is an important component of public health surveillance and assessment which can help inform policies and programming at the state and local levels that address population health. Ohio Public Health Data Warehouse (OPHDW) users may explore mortality data through detailed mortality reports, charts, and maps to answer questions about what causes Ohioans to die and to compare rates of death between different geographic areas or population groups within the state.

$$\text{Death Rate} = \frac{\text{Number of Deaths}}{\text{Population}} \times 100,000$$

Ohio Public Health
Data Warehouse
Video Overview

Mortality information is collected by the Ohio Department of Health (ODH) and is derived from Ohio Certificates of Death. Deaths can be categorized as resident deaths or occurrence deaths. Most of the information presented in this module is based on resident deaths. Resident deaths include deaths among

Click on “Reports By Selected Causes”:

Ohio Public Health Data Warehouse

Home | Help

Mortality

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Number of Resident Deaths by Year, Ohio

[Run](#) [Customize](#)

Number of Resident Deaths by Year, Ohio Counties

[Run](#) [Customize](#)

Deaths of Ohio Residents - Report Builder

[Customize](#)

Deaths that Occurred in Ohio - Report Builder

[Customize](#)

▶ **Reports By Selected Causes**

▶ Reports By Age

▶ Unintentional Drug Overdose Data

You will now select the type of cause list you wish to use in your tabulation. The cause groupings range in granularity from 39 to 358 categories. When creating a report with rankings involved (“leading cause” or “top ten causes”) you should choose the leading cause list. Click **“Run”** on **“Leading Causes of Death: Deaths and Age-Adjusted Death Rates per 100,000, Ohio”** row:

▼ **Reports By Selected Causes**

Cancer Deaths of Ohio Residents	Run	Customize
Leading Causes of Death: Deaths and Age-Adjusted Death Rates per 100,000, Ohio	 Run	Customize
General Causes of Death (39 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run	Customize
Selected Causes of Death (113 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run	Customize
Detailed Causes of Death (358 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run	Customize
Resident Mortality Mechanism by Intent	Run	Customize

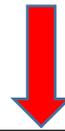
► **Reports By Age**

Clicking **“Run”** results in the warehouse pre-defined leading cause table. The numbers in the death count columns should be used to rank causes of death. You will need to scroll down among the 50 rows to ascertain which causes rank the highest. For example, in 2015 diseases of the heart is the top leading cause with 28,027 deaths ahead of malignant neoplasms in second with 25,368 deaths (when considering all deaths).

Leading Causes of Death: Deaths and Age-Adjusted Death Rates per 100,000, Ohio

Causes of Death are coded to the tenth revision of the International Classification of Diseases (ICD-10). Tabulation lists are disseminated by the National Center for Health Statistics to facilitate trend analysis and identify causes that are of public health and medical importance. Causes designated with the symbol # are ranked as leading causes of death and included in this report using the 113 category list. See <https://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2009.pdf> for more information.

List of data filters applied in this report:
by Sex, Leading Cause of Death (113)
for Year = (2015) , Res State = (OH)



Leading Cause of Death (113)	Female		Male		Unknown		Total	
	Death Count	Age Adjusted Rate						
	0	N/A	0	N/A	0	N/A	0	N/A
Salmonella infections (A01-A02)	0	N/A	2	N/A	0	N/A	2	N/A
Shigellosis and amebiasis (A03,A08)	0	N/A	0	N/A	0	N/A	0	N/A
Tuberculosis (A16-A19)	6	N/A	10	0.2	0	N/A	16	0.1
Whooping cough (A37)	0	N/A	0	N/A	0	N/A	0	N/A

If instead of clicking on “**Run**” you click on “**Customize**”, you will be able to refine your report based on the warehouse’s pre-defined filters and dimensions.

▼ **Reports By Selected Causes**

Cancer Deaths of Ohio Residents	Run Customize
Leading Causes of Death: Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run Customize
General Causes of Death (39 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run Customize
Selected Causes of Death (113 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run Customize
Detailed Causes of Death (358 Categories): Deaths and Age-Adjusted Death Rates per 100,000, Ohio	Run Customize
Resident Mortality Mechanism by Intent	Run Customize

► **Reports By Age**

► **Unintentional Drug Overdose Data**

Once you click “**Customize**” you will see the variable filter choices. Click on the expand + symbol to the left of the variable group to see the contents of that group. We will show how to select a specific race group than the “all races” provided when you ran the table before. Click the expand + symbol beside Demographics:

Customize

Variable Choices

Year

+ Demographics

+ Time/Location

+ Injury indicators

+ Causes of death

Column Selections

Sex

Row Selections

Leading Causes of ...

Selected Measures

Death Count Age Adjusted Rate

Measure Choices

Death Rate

1) Drag one or more "Variable Choices" to the "Column Selections" drop box above. Re-arranging selections will change their display order and modify percent calculation.

2) Drag one or more "Variable Choices" to the "Row Selections" drop box to the left.

3) Drag a "Measure Choices" to the "Measure Selections" above.

4) Click the funnel icon to filter your report.

5) Click the gear icon to configure additional settings.

6) Click the "Run" button to generate your report.

Report Options:

Summarize Variables in Subreports

Include Row Totals

Include Column Totals

Run Get Data

You will now see the variable choices in the Demographic variable group: Click on the filter  symbol beside the word "Race" so that you can pick a specific race to tabulate by leading cause.

Ohio Public Health Data Warehouse

Customize

Variable Choices

Year  

- Demographics

Age 10 Categories  

Education Level  

Ethnicity  

Marital Status  

Neonatal Age Groups  

Race   

Res Zip Code  

County  

Age 11 Categories  

+ Time/Location

+ Injury indicators

+ Causes of death

Measure Choices

Death Rate 

Column Selections

Sex  

Row Selections

Leading Causes of ...  

Selected Measures

Death Count  Age Adjusted Rate 

- 1) Drag one or more "Variable Choices" to the "Column Selections" drop box above. Re-arranging selections will change their display order and modify percent calculation.
- 2) Drag one or more "Variable Choices" to the "Row Selections" drop box to the left.
- 3) Drag a "Measure Choices" to the "Measure Selections" above.
- 4) Click the funnel icon  to filter your report.
- 5) Click the gear icon  to configure additional settings.
- 6) Click the "Run" button to generate your report.

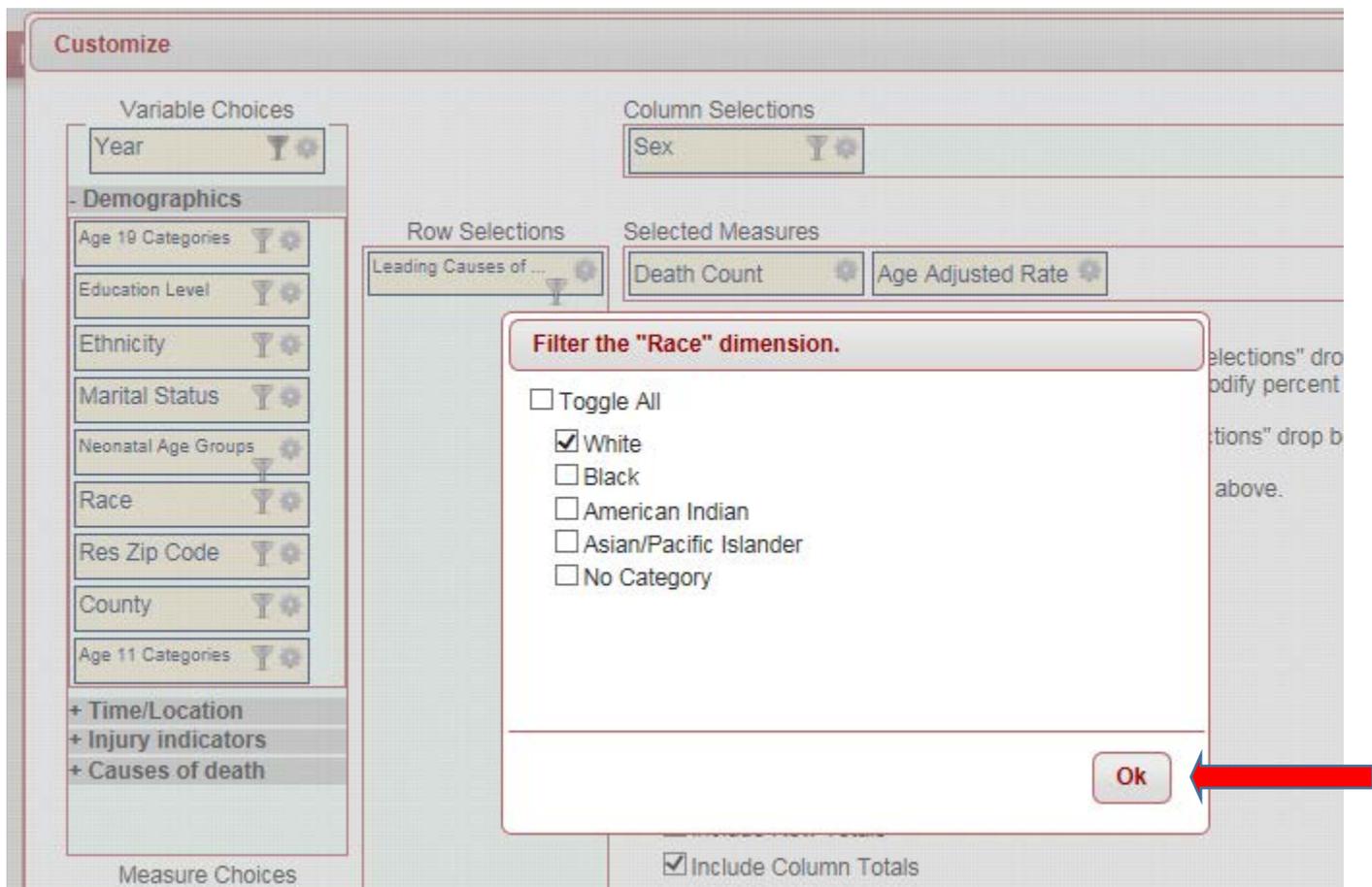
Report Options:

Summarize Variables in Subreports

Include Row Totals

Include Column Totals

That opens the race choices available in the warehouse; we have picked “White” in the following example. You will then click OK and then run the report:



You will need to click the “**Run**” icon when creating custom tabulations.

Users can move the variable choices over to the Column area if that is desired. For example, if you want to tabulate leading causes by race rather than by sex, you will drag the sex textbox to the left and drop it in the demographics grouping. Then move the race grouping over to the column selections, and the table will return with races as columns rather than sex.