AVR Report Tutorial – Rate per 100,000 population of top reportable communicable diseases

The following instructions take Analysis, Visualization, and Report (AVR) users through the process of creating reports showing communicable disease incidence for a local jurisdiction and the State.

Users must obtain approval from the Division of Public Health (DPH) to access Wisconsin Electronic Disease Surveillance System (WEDSS) data in AVR by sending an email to dhswedss@wi.gov

To obtain a report with county incidence counts and rates:

After logging into AVR select the report studio link.

From the next window you can open an existing report or start from scratch with a new report. Select New.

You are now at the Edit tab of SAS Web Report Studio – Untitled Report.
Select the dataset to work with by clicking on the Data menu. Then click on Select Data.

The Select Data window will open. The Data Source should be WEDSS_Cube. If the Data Source is not WEDSS_Cube, click on the Change Source button.
When you click on Change Source, another window will open to display the WEDSS data sets. From here you can choose WEDSS_Cube. Click the OK button.

Select components of the WEDSS cube to use in the report from the Available Data Items panel. Click on the plus sign before each category to expand the Time, Place, Demographics, Case, and Measures categories.
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Click on the plus sign in front of Time. Select Episode Year in the Available Data Items panel and double click or click on the single arrow between the two panels. Episode Year will now appear in the Selected Data Items panel.

Scroll down to the Place folder, click on the plus sign, and select County in the Available Data Items panel and click on the single arrow between the two panels. County will now appear in the Selected Data Items panel. Select Disease and Resolution Status from the Case folder. Select the following from the Measures folder: Incident Count, County Population, and County Rate. Click OK.
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Under the edit tab is a row of icons. The second icon is the crosstab icon. Click and drag this icon into the grid below.

A table will now appear in the grid. Right click on the table and select Assign Data.
You can now select data for the report. The first entry in this example under the Columns heading is Episode Year. Leave this element in the Columns section along with Incident Count and County Rate. The element County Population is not going to appear in the report but the report will filter on it. Click on County Population to highlight it. Then click the Move Items button and select Move to Hidden.

Move County and Resolution Status to hidden so only Disease is left under the Rows heading. The Data Items box should look like the picture below when you are done. Click OK.
Before proceeding, you will need to indicate the table is an independent object. The default is Synchronized Objects. Click on Options (the second Options to the right of Section Data) and uncheck Synchronized Objects. This is necessary in order to suppress zeros later on.

Next, filter the data to view only the data that fit the conditions of the report. Right click on the table and select Filter and Rank.
The Filter window will open.

Select the Episode Year category and click on the Filter button. In the Available Values panel select the most recent full year. Click on the single arrow between the panels. You may also select a number of years at this time to compare counts across years.)
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Next click on Disease and Filter. All possible diseases including some that are not reportable such as AFB Smear Positive are shown. To delete certain diseases from the table you are creating, either select only the diseases you wish to appear in the table or move all diseases to the Selected values box by double clicking on the double arrow and delete diseases you do not want by clicking on the X to the right.

Select County and Filter and move your county to Selected Values. Highlight Resolution Status and select Filter and move Confirmed and Probable to Selected Values. Click OK.
Add a header to the report. Click on the header menu above the table and select edit. A header window will open and the user may type directly into the header window. When finished click OK.

Your report is set up. Click on the view tab to see the effects of your data assignment and filters.
You will want to suppress the rows with zero values. Right click on the report and select Filter and Rank. When you select Filter and Rank a window will open. Click on the Measure Filter or Rank tab.

In the Measure Filter or Rank tab click on the filter radio button. Select (rows) (default) in the Show Values Of: field. Select Incident Count in the Measures field. Select Is Not Equal To in the Operator field. Type 0 in the Value field. Click OK.
Right click on the Incident County column heading and select Sort Columns Data and Sort Descending. The table will now show disease report incidence from most to least.

To remove the detailed information at the beginning of the report on the report content, go to View and uncheck the Applied Filters box.

You must save your report. Select File and Save As. Save the report in the Workspace folder of Reports (in My Folder under Location). Click Save.
To obtain Wisconsin rates, modify the existing report by doing the following:

Click on the Edit tab and go to Data and Select Data. Highlight and delete County, County Population, and County Rate under Selected Data Items.

Under Available Data Items, go to Place and move State to Selected Data Items. Under Measures select and move Wisconsin Population and Wisconsin Rate. Click OK.
Right click on the table grid and select Assign Data. Move Wisconsin population and State to Hidden. Click OK. Right click and select Filter and Rank. Click on State and filter for Wisconsin. Click OK.

Click on the View tab to see the Wisconsin report. The incidence will be sorted from highest to lowest, but it may be easier to reorder the diseases in alpha order for finding the rate to enter in the table comparing the jurisdiction’s top reportable disease rates to Wisconsin rates. To reorder the Wisconsin diseases in alpha order, right clinic on the Incident Count column heading and select Remove all sorting.

Select File and Save As. Save the Wisconsin report with a new name.

To find your reports, go to File and Open. To print the reports, go to File and Print.