CRISP

Confirmed COVID-19 Cases Report

User Guide

By CRISP, last updated 5/19/20

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Confirmed COVID-19 Cases Report

Background

The Confirmed COVID-19 Cases report is designed for individuals working on population health and public health, who want a deeper understanding of the spread of the coronavirus throughout the state of Maryland and District of Columbia. With this dashboard, users have the ability to analyze Maryland's and DC's confirmed coronavirus cases by zip code, census tract, specimen collection date, and demographic variables. The dashboard features an interactive map of Maryland/DC region to drill down into the confirmed case count by zip code and census tract. This dashboard additionally includes information regarding COVID related fatalities in Maryland with views around demographics and date of death. Please note that the number of cases reported for Maryland are for Maryland residents only and cases reported to the Maryland Department of Health (MDH), while the District of Columbia data are cases reported to DC Health.

Data Sources

Confirmed Case and Specimen Collection Data:

The primary data source shown in this report is confirmed cases provided from the Maryland Department of Health (MDH) and DC Health. MDH & DC Health send a daily list of confirmed cases to CRISP.

County/Zip Codes:

For all COVID-19 positive confirmed cases, the county and census tract values are based on geocoding the address provided by Maryland Department of Health and DC Health. Please note: not all addresses are able to be geocoded.

For all population counts and rate denominators, the county, zip code, and census tract come from the 2010 Census estimates.

Fatalities:

The two fatality tabs within the Confirmed Cases Report display COVID-19 Fatality data from the Maryland Vital Statistics Administration for Maryland residents only. Confirmed deaths are categorized by laboratory-confirmed positive COVID-19 test result, while Probable deaths lists COVID-19 as the cause of death on the death certificate but have not yet been confirmed by a laboratory test.

Lab Data:

CRISP compiles the data in this report from HL7 laboratory transactions provided to Maryland Department of Health through the National Electronic Disease Surveillance System (NEDSS). The State of Maryland requires all laboratories to submit all COVID-19 positive and negative test results for any Maryland resident. CRISP refreshes the data daily overnight. Report totals may differ from Maryland Department of Health figures. The figures may include some non-Maryland residents. The data are unverified and not publicly available. Any indicator of a pending test period is an approximation by CRISP based on review of the NEDSS.

Regions:

Region	Counties
Capital	Frederick, Montgomery, Prince George's
Central	Anne Arundel, Baltimore City, Baltimore, Carroll, Harford, Howard
Eastern Shore	Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, Worcester
Southern	Calvert, Charles, St. Mary's
Western	Allegany, Garrett, Washington
District of Columbia	DC

For more information on confirmed COVID-19 cases, please visit the MDH and DC Health websites:
https://coronavirus.maryland.gov/

https://coronavirus.dc.gov/

Measures

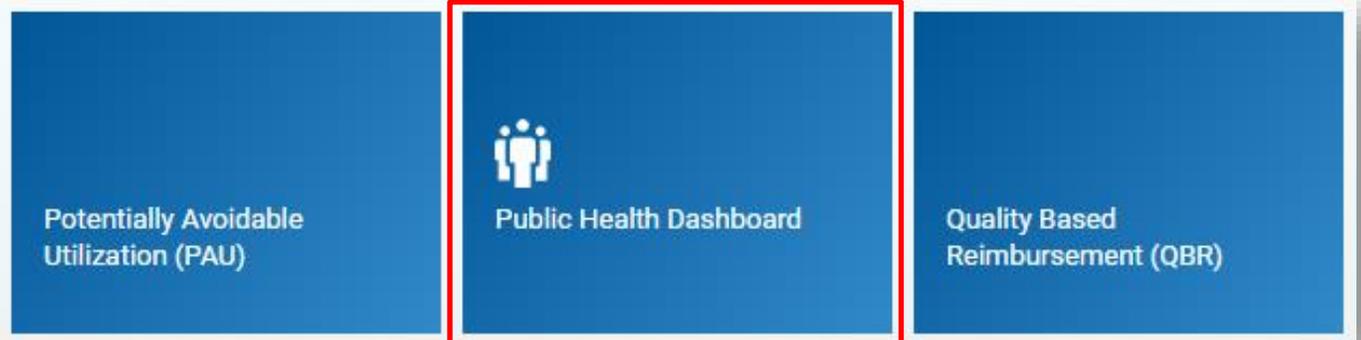| Metric	Definition
Total Cases	Total number of cases in selected geography (zip or census tract). This is based on the confirmed cases from MDH data.
Cases per 1000 Residents	Cases per 1000 residents in selected geography (zip or census tract). The numerator in this measure is based on confirmed cases from MDH data. The denominator is based on the 2010 census estimate.

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Tableau Confirmed COVID-19 Cases Report Access/Card

Step 1. To access the Confirmed Cases Report, login to the CRISP Reporting Services Portal by visiting https://reports.crisphealth.org. Once in the CRS Portal, a dashboard of different blue report "cards" will appear, availability of reports is based on the access of the user. Clicking the card named "Confirmed COVID-19 Cases" will bring up the available reports for this category. The following screen shots represent the user's workflow.

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Step 2. By clicking the Tableau icon as shown below, you will access to the Confirmed COVID-19 Cases Report. The question mark icon will allow you to access documentation such as user guides and data dictionaries where applicable.

Tableau Features

On each Tableau dashboard, there are menu options for the user to select, which are listed below. Additionally, the Tableau report contains multiple dashboards. The available dashboards are listed at the top.

Confirmed Cases Map | Confirmed Cases by Day | Confirmed Cases by Demogra... | Hotspotting Map | Fatality Demographics | Fatalities by Day

Menu Option	Description
Print	This button allows you generate a PDF from the selected tabs in Tableau. When you click the icon, a menu with various export options appear. The user can print multiple tabs and with the desired filters, and the user has options to adjust the page scaling, paper size, and paper orientation for printing.
Excel/Crosstab	The Excel or crosstab option allows user to export a dataset into an Excel workbook or CSV file, and provides additional columns that may not be present in the Tableau workbook. You will have to separately download a new file if you want the data tables with different filter selections.
Help	This button opens the Tableau user guide.

Report Sections

Provided below is list of all the reporting tabs available in this reporting dashboard. To click through the sections of the report, simply select one of the grayed-out tabs on the top tool bar (highlighted in red below).

1. Confirmed Cases Map
2. Confirmed Cases by Day
3. Confirmed Cases by Demographics
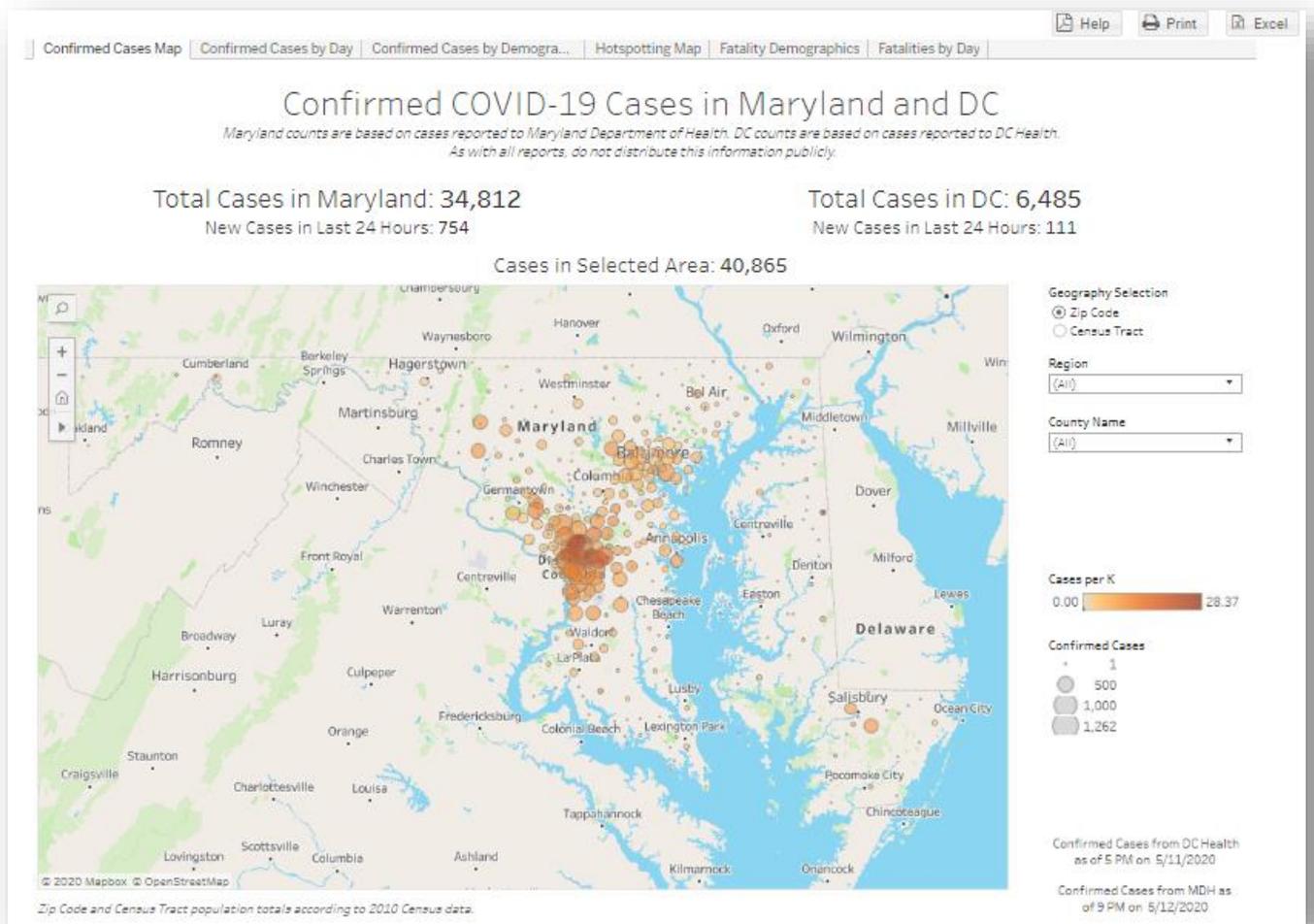4. Hotspotting Map
5. Fatality Demographics
6. Fatalities by Day

1. Confirmed COVID-19 Cases

The 'Confirmed COVID-19 Cases' landing page provides a heat map by zip code of positive COVID19 tests in Maryland and the District of Columbia. Census tract group, County, Zip Code, and Maryland Department of Health (MDH) regions filters are included. Users can use these filters to further refine areas of positive COVID19 tests in Maryland and DC. A 'New Cases in the Last 24 Hours' and 'Total Cases Statewide' metric banners persist through the reporting suite. To filter to just DC results, users must select District of Columbia within the region filter. The data through date can always be found in the lower right-hand section of the report.
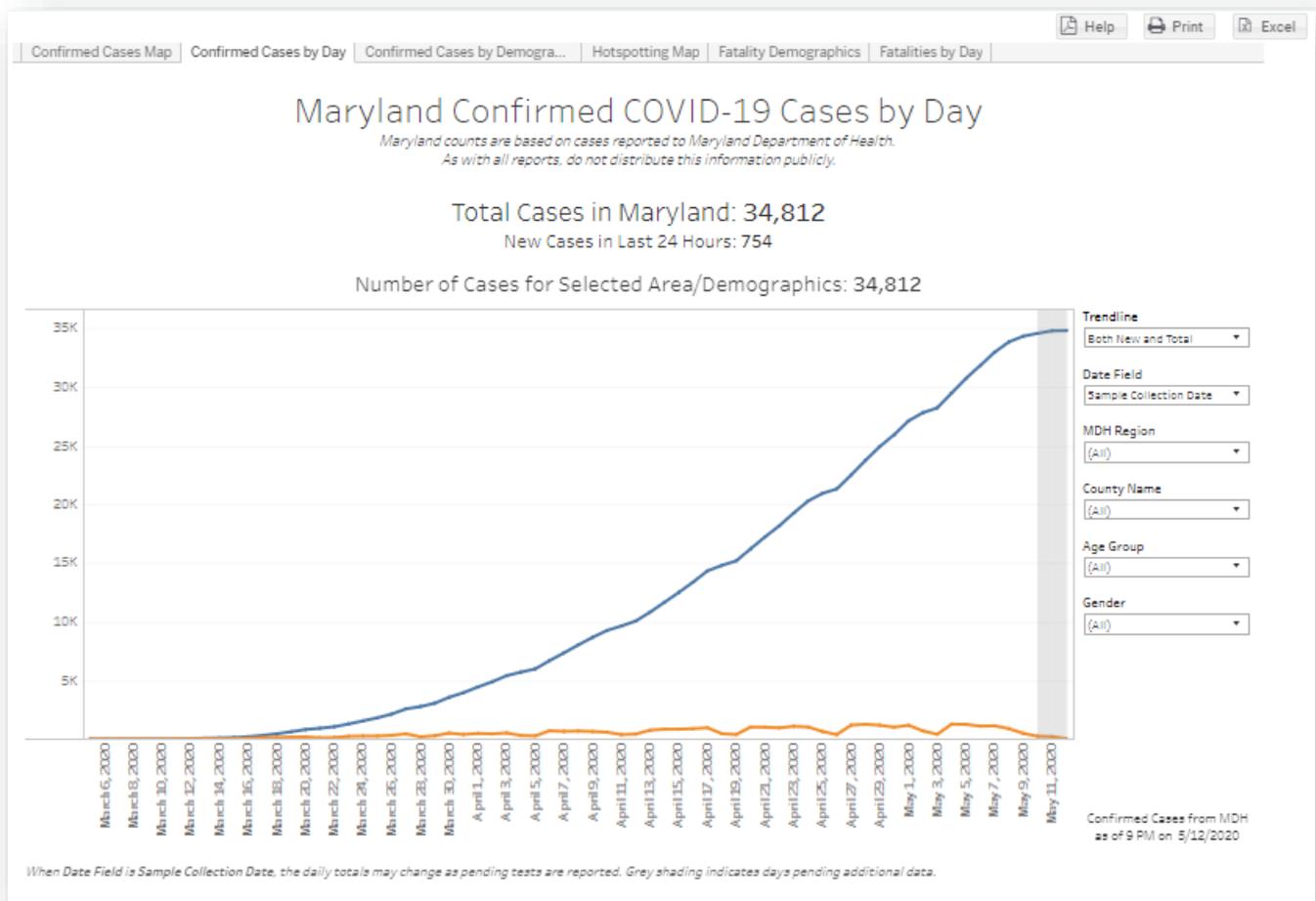
2. Confirmed Cases by Day

The second tab titled 'Confirmed Cases by Day' graphically displays new confirmed cases by day for Maryland confirmed cases only. The line graph displays a blue line for the cumulative number of cases while the orange line shows positive cases for that day. Users can select a trendline of interest from the filters on the right to zoom in on positive cases only or total cases only. Furthermore, the date field allows users to select between sample collection date and lab reported date. When viewed by specimen collection date, daily totals may change as pending tests are reported. A gray 'Pending Test Results' bar helps users understand which dates are still pending test results and that the data is expected to change. MDH Region, County, Age Group, and Gender filters are available in this dashboard.
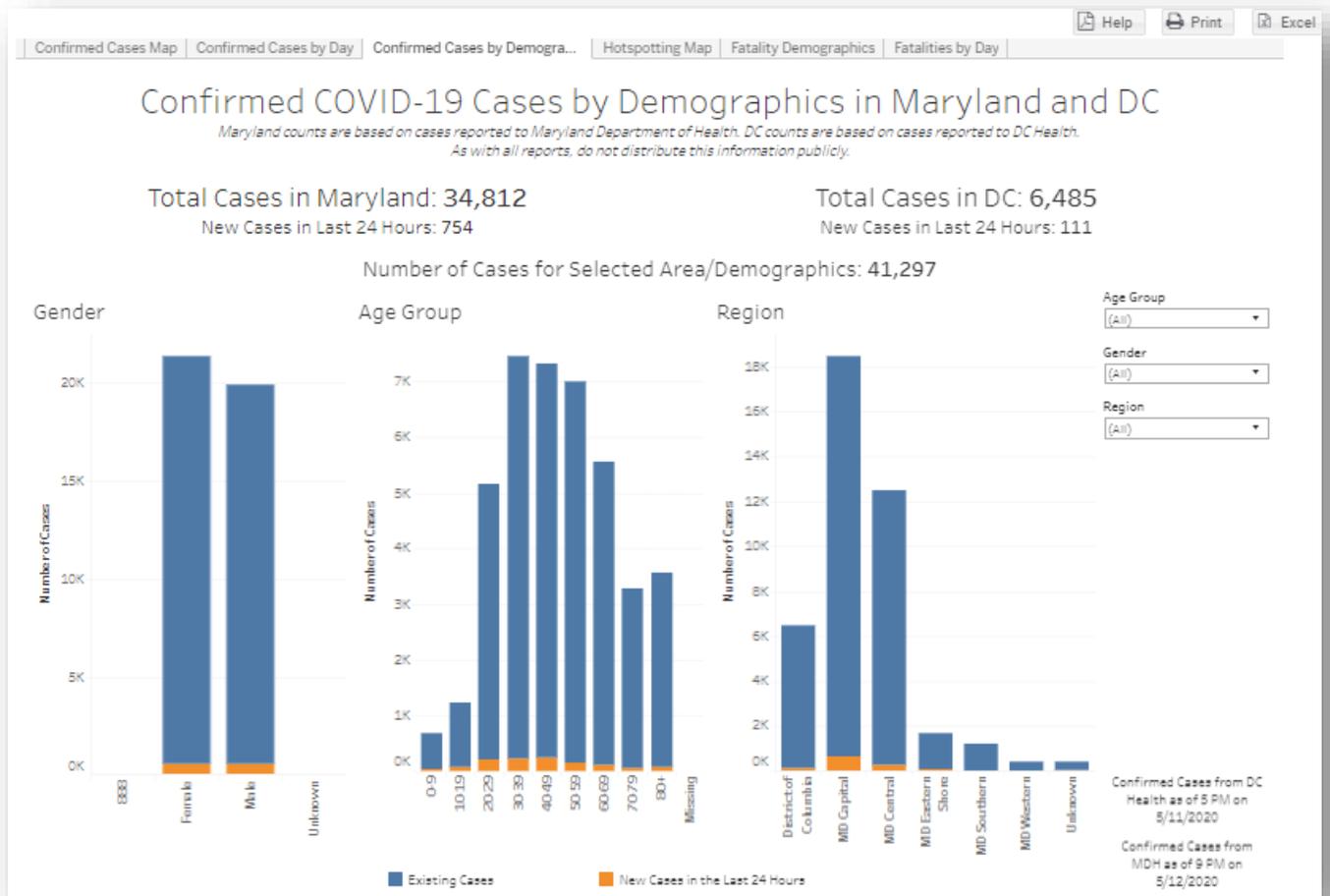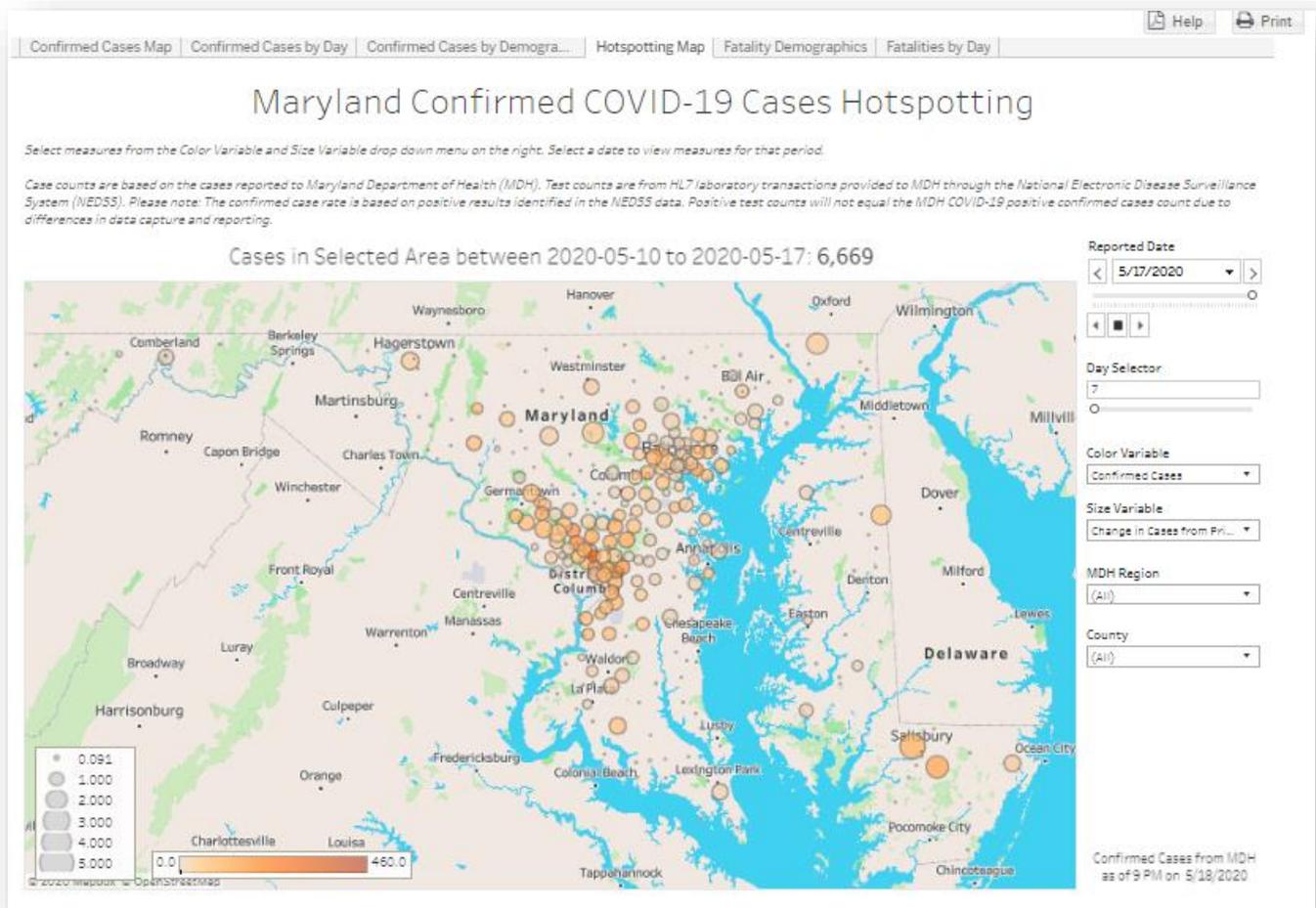
3. Confirmed Cases by Demographics

The third tab titled 'Confirmed Case by Demographic' contains bar charts of positive COVID-19 tests by gender, age group, and MDH geographic region respectively. Mouse hovers display the total values of each category. An orange bar within each of the individual demographic blue bars signifies new cases in the last 24 hours in each demographic category.
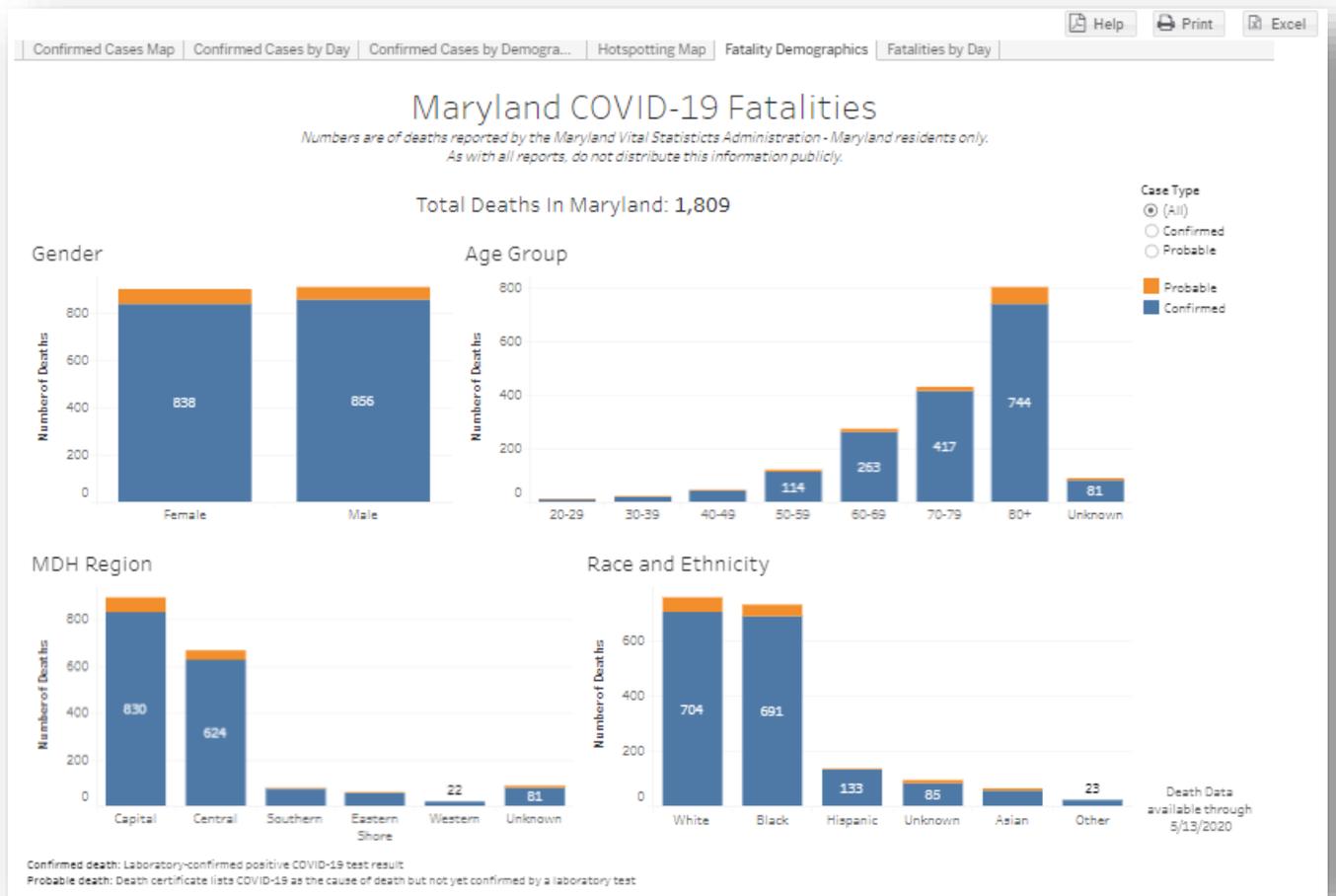
4. Hotspotting Map

While this forth tab looks similar to the Confirmed Cases Map on tab 1, the Hotspotting Map allows users to time lapse a selected metric on the Maryland map. Users can slide the date filter back to a desired past date and click the right arrow button below the date filter to set in motion the time lapse on the map. The same function below can be done in reverse by clicking the left arrow button. The middle stop button will pause the time lapse at current date being viewed on the map. This feature always users to watch hot spots for the available metrics develop over time. Users can change the hot spot variable on the map view all confirmed cases, cases per 1000, COVID tests, tests per 1000, positive test percentage, change in cases from prior period, and change in tests from prior period. Test counts are from HL7 laboratory transactions provided to MDH through the National Electronic Disease Surveillance System (NEDSS).

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5. Fatality Demographics

This tab displays bar graphs of the demographic breakdown of COVID-19 related fatalities by gender, age group, MDH region, and Race and ethnicity. Fatality data is reported from the Maryland Vital Statistics Administration for Maryland residents only. The report shows both confirmed (in blue) and probable fatalities (in orange). Confirmed deaths are categorized by laboratory-confirmed positive COVID-19 test result, while Probable deaths lists COVID-19 as the cause of death on the death certificate but have not yet been confirmed by a laboratory test.

6. Fatalities by Day

The Fatalities by Day report displays the number of deaths due to COVID-19 per day. Fatality data is reported from the Maryland Vital Statistics Administration for Maryland residents only. Hovering over each bar on the graph will highlight the total number of confirmed and probable fatalities for corresponding day. The last three days of data are grayed out as the data is still pending and the counts are not final.