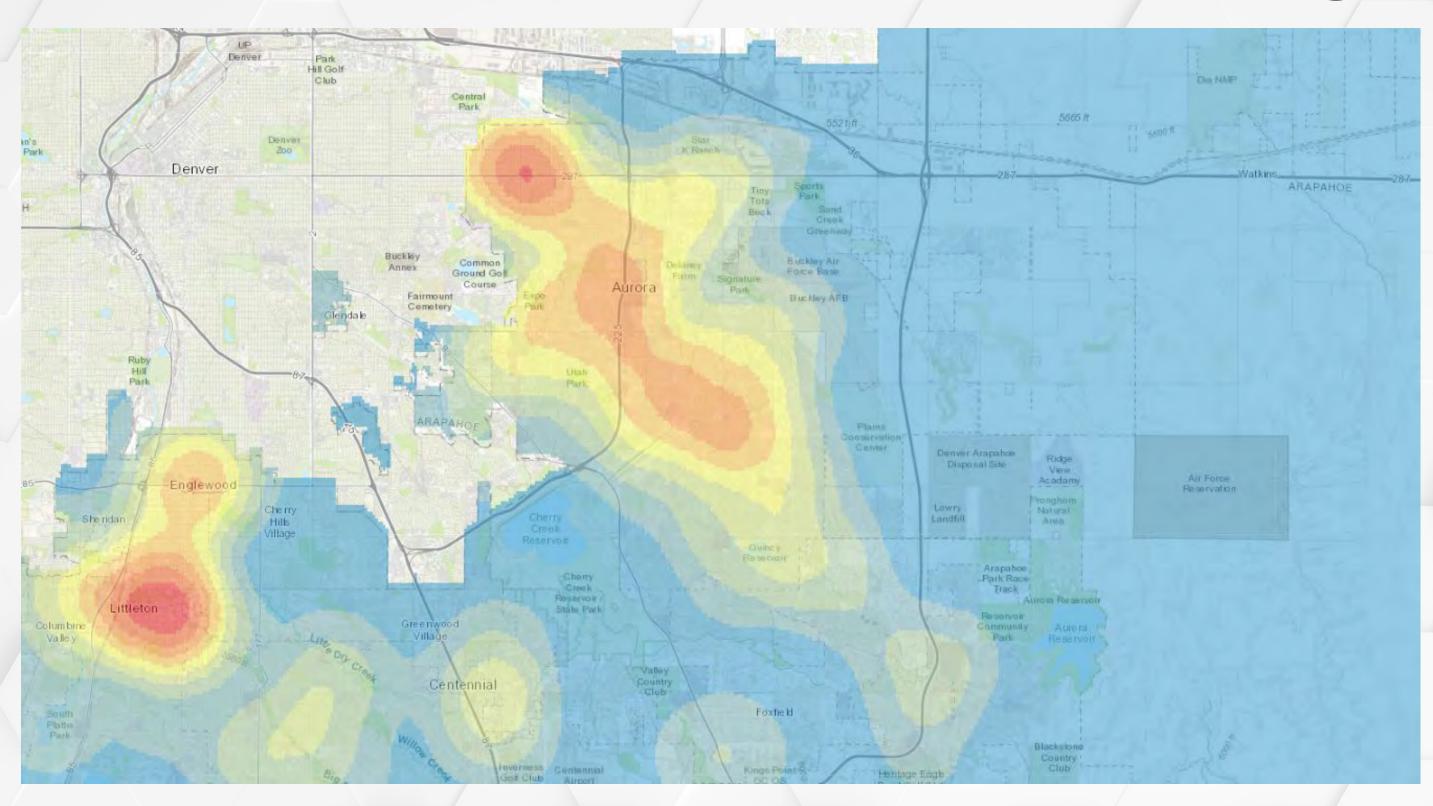
# Using GIS for Covid 19 Case and Contact Investigations

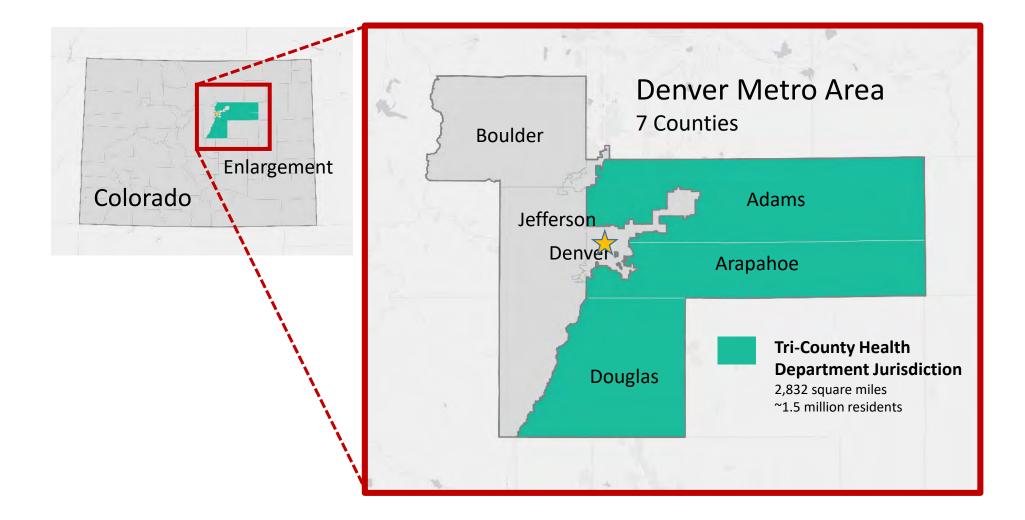


Adams, Arapahoe, Douglas Counties | Colorado



# **Tri-County Health Department**

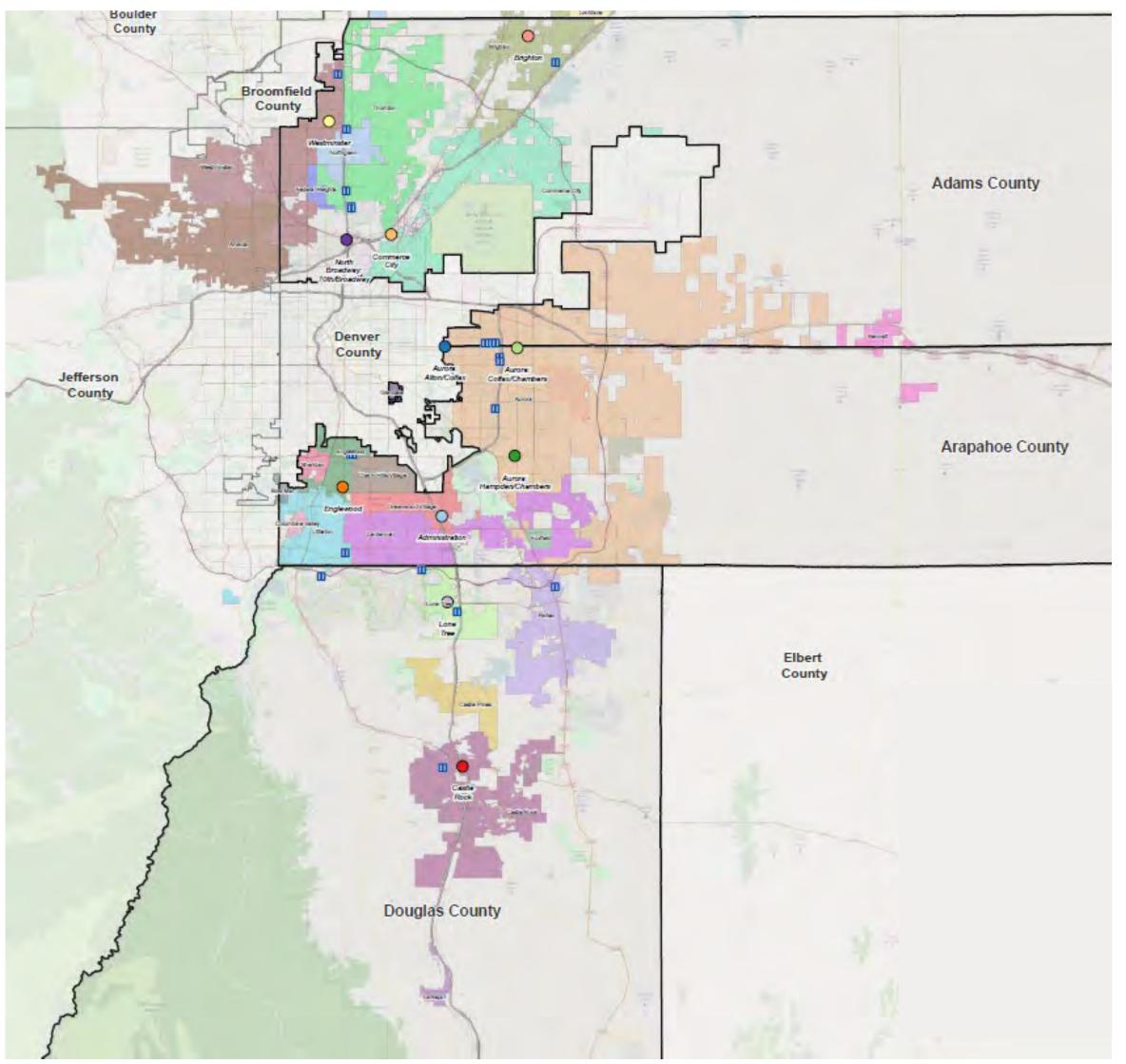
Adams, Arapahoe, Douglas Counties



# Tri-County Health Department (TCHD)

is the local public health agency for three (Adams, Arapahoe, Douglas) of the seven counties that make up the Denver metro region. TCHD serves approximately 1.5 million residents across 27 municipalities consisting of urban, suburban, and rural environments.

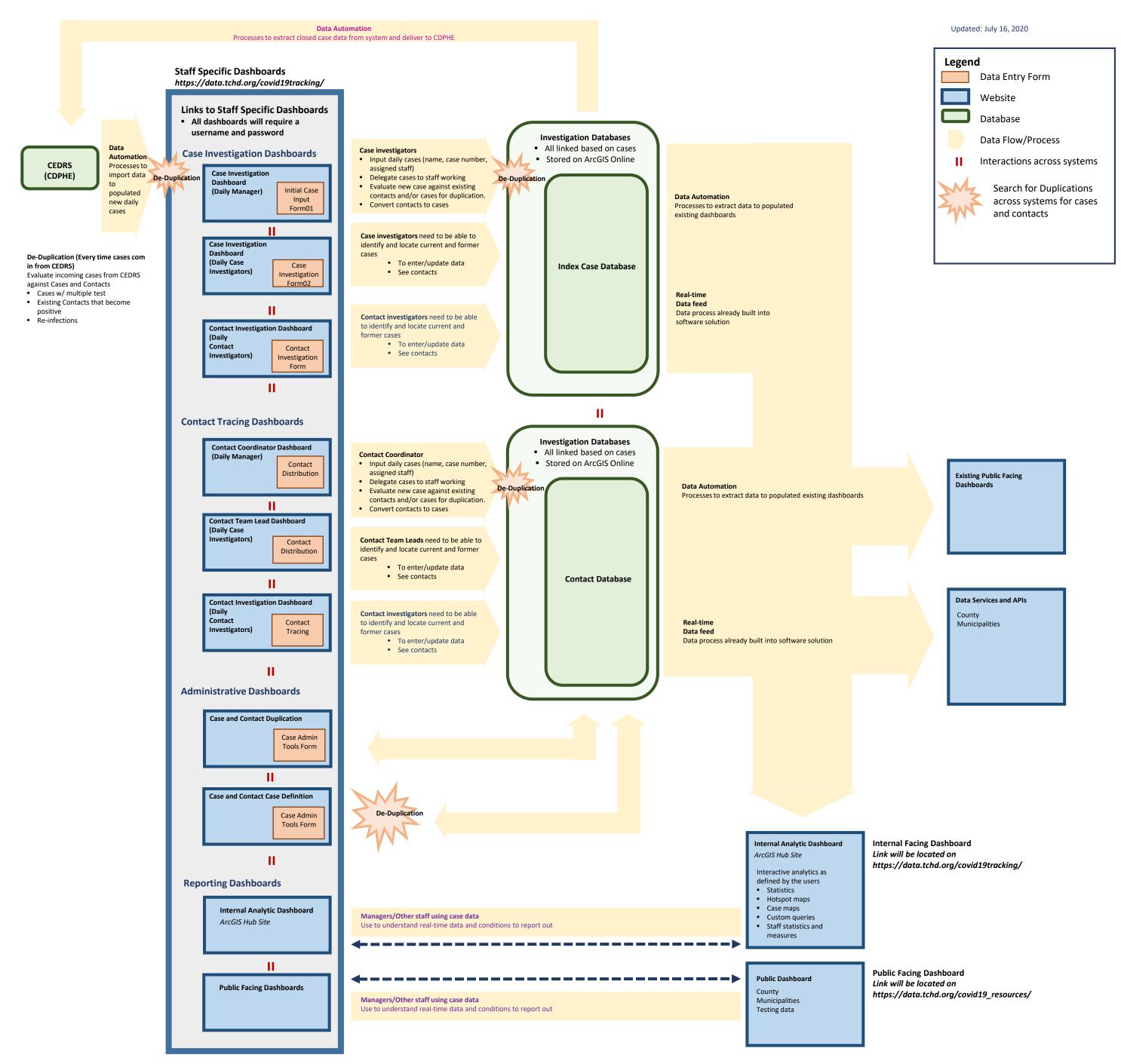
- ~ 425 employees
   4 seats of ArcGIS Desktop
- 3 health data analysts
- 1 ArcGIS server license





# **COVID19 Case Investigation Main Dashboard**

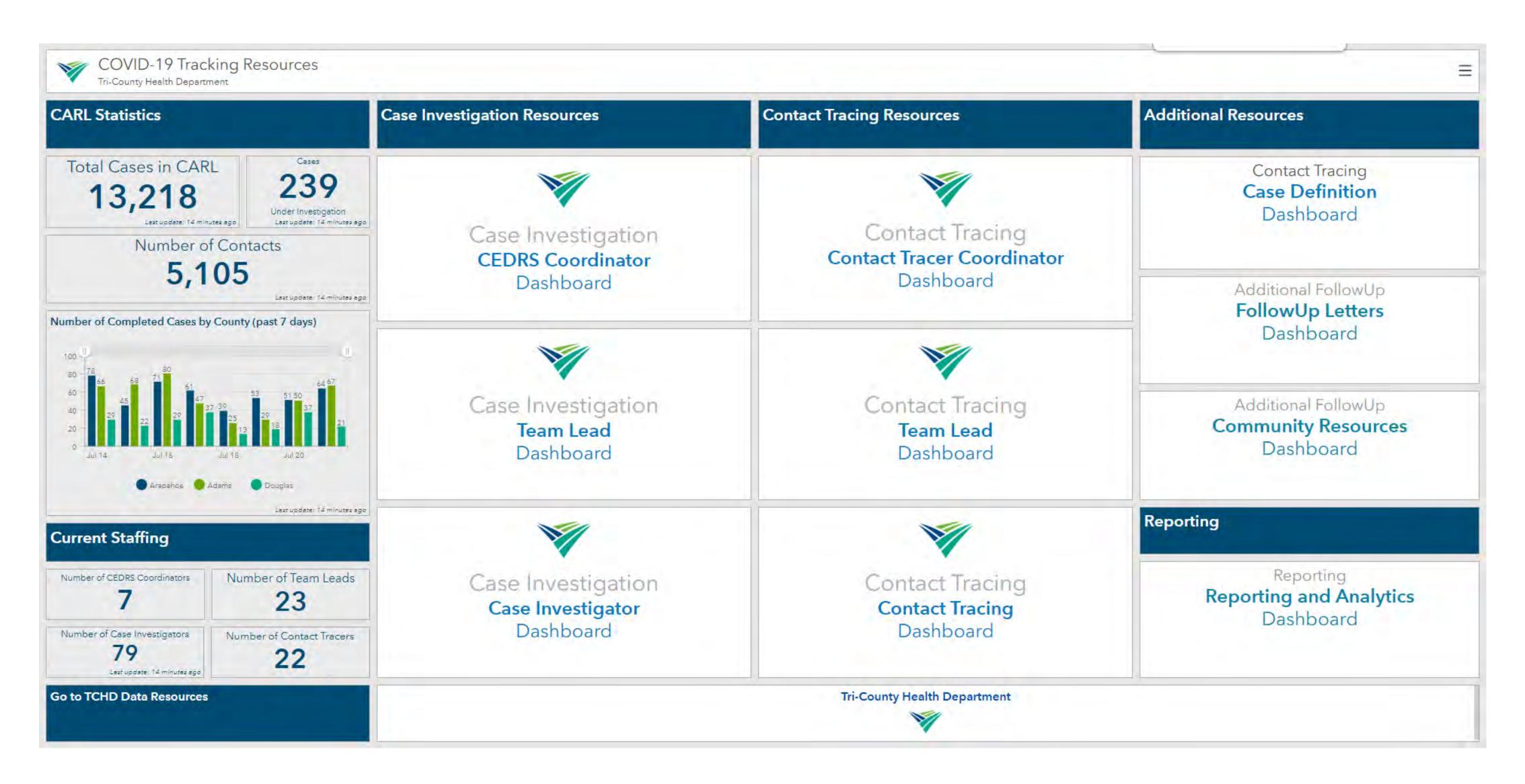
Using ESRI ArcGIS Online





# **COVID19 Case Investigation Main Dashboard**

Using ESRI ArcGIS Online Dashboards



Real-time general statistics from CARL

Case investigation workflow dashboards

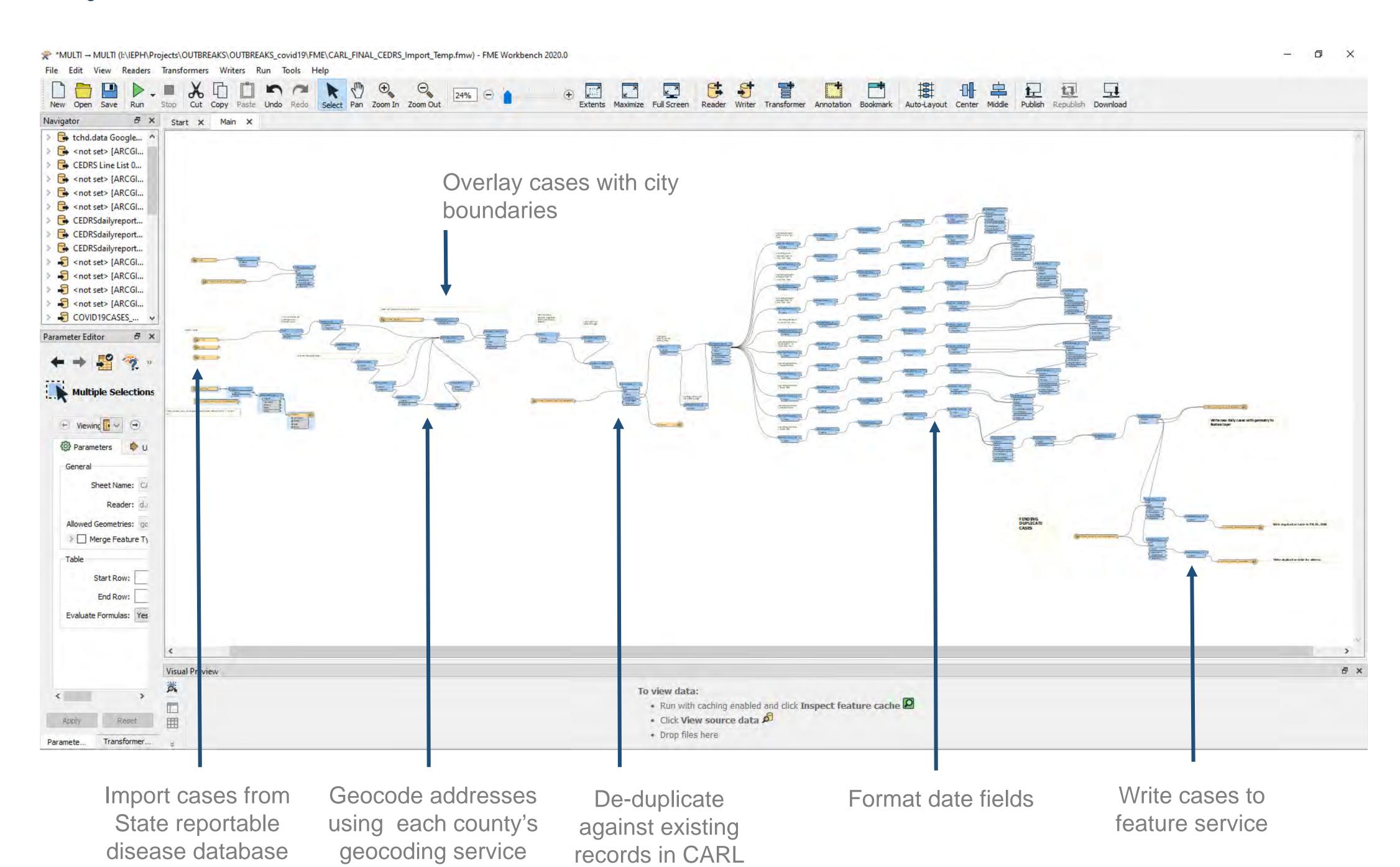
Contact tracing workflow dashboards

Case investigation follow-up dashboards



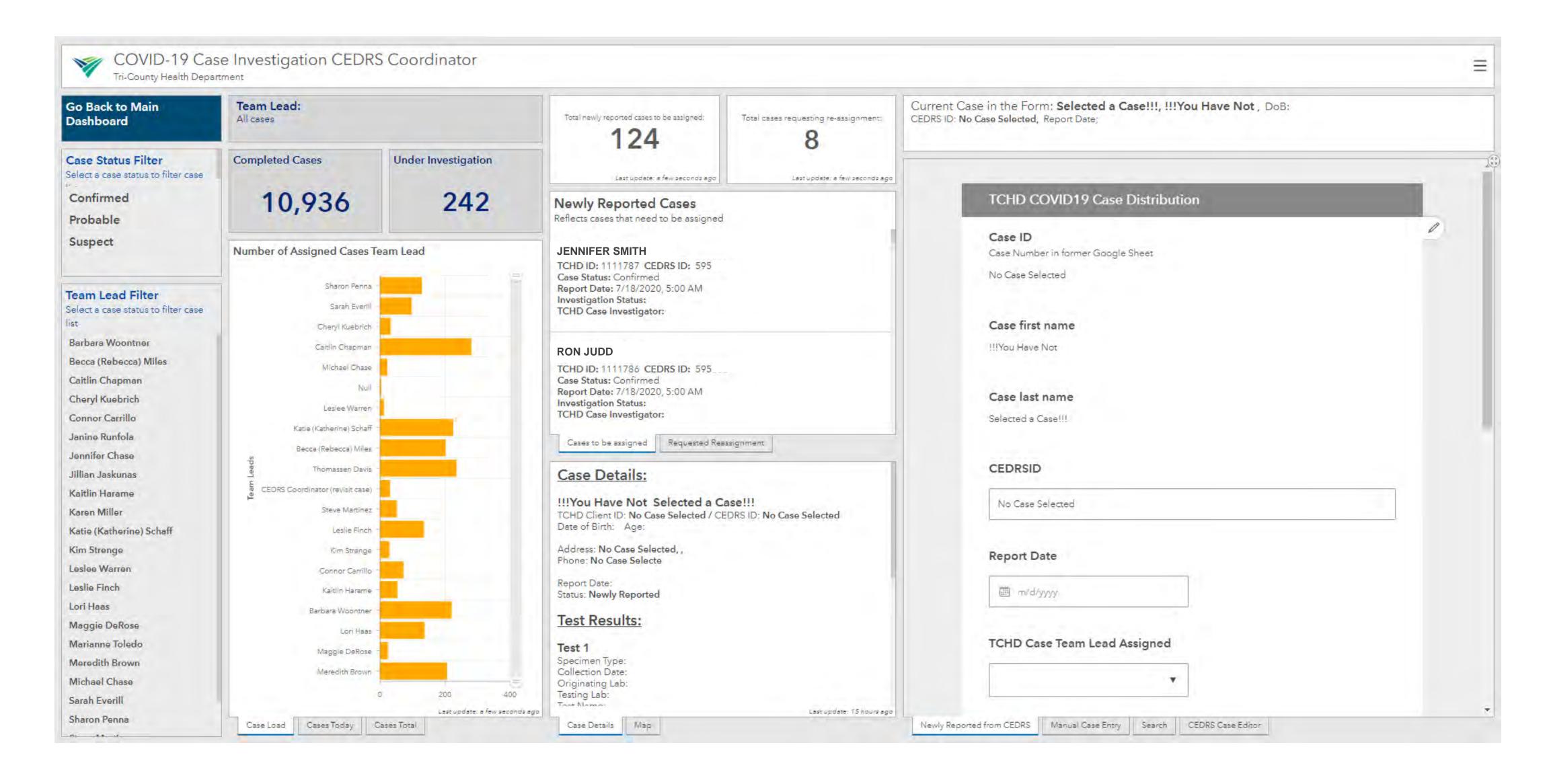
# **COVID19 Case Importing Process**

Using FME Workbench



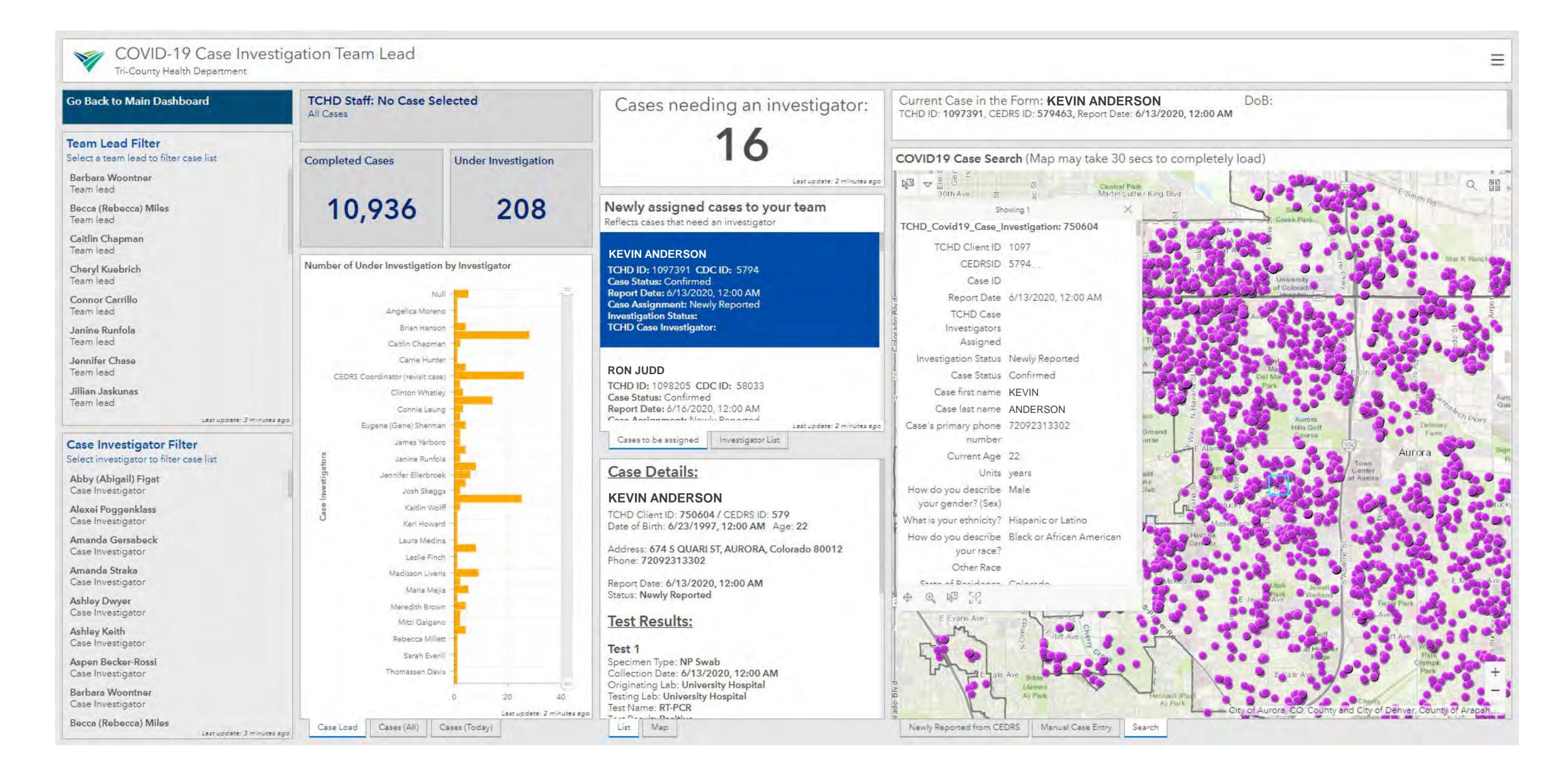
Tri-County
Health Department

# **COVID19 Case Investigation Coordinator**



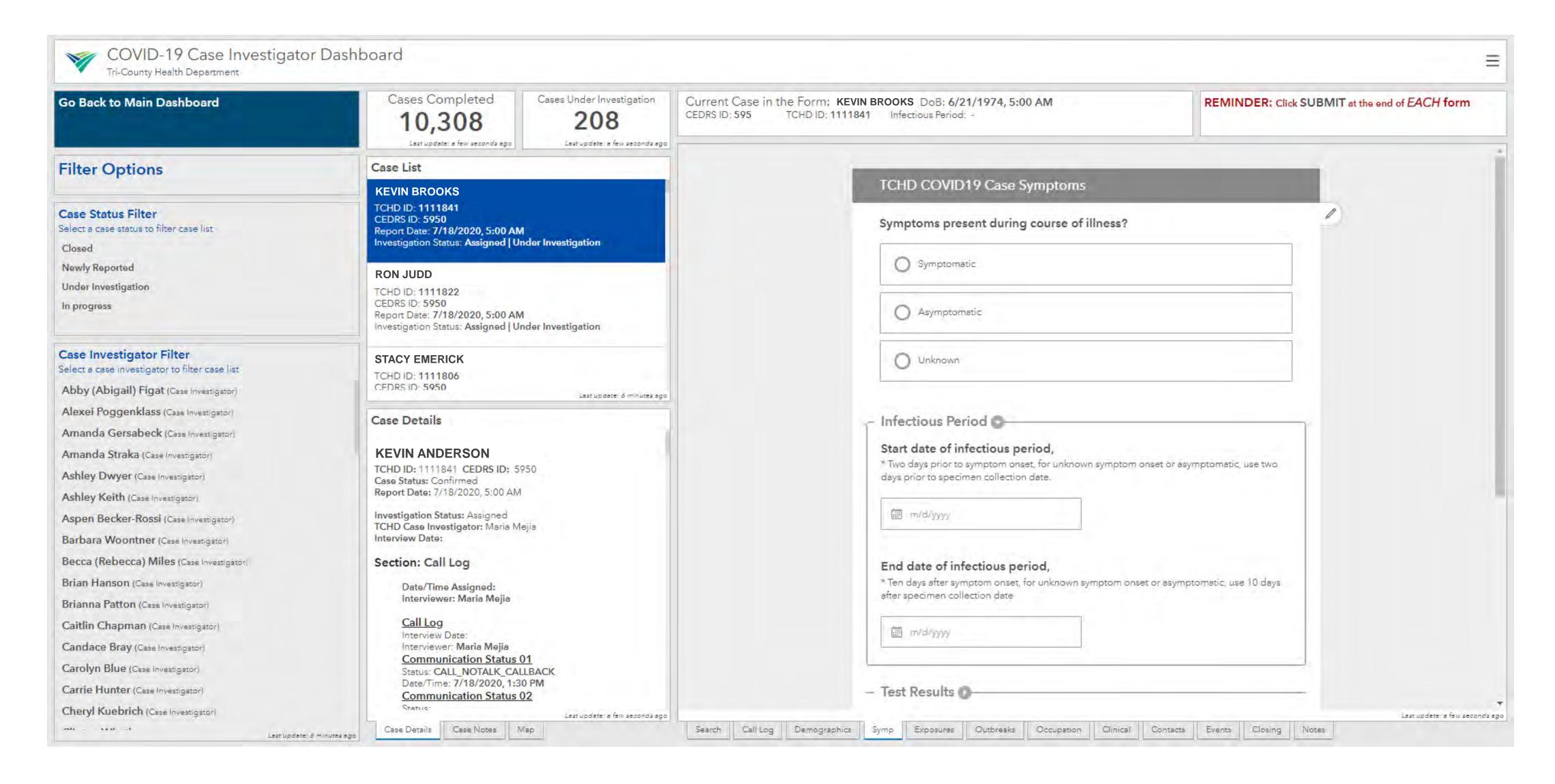


# **COVID19 Case Investigation Team Lead**



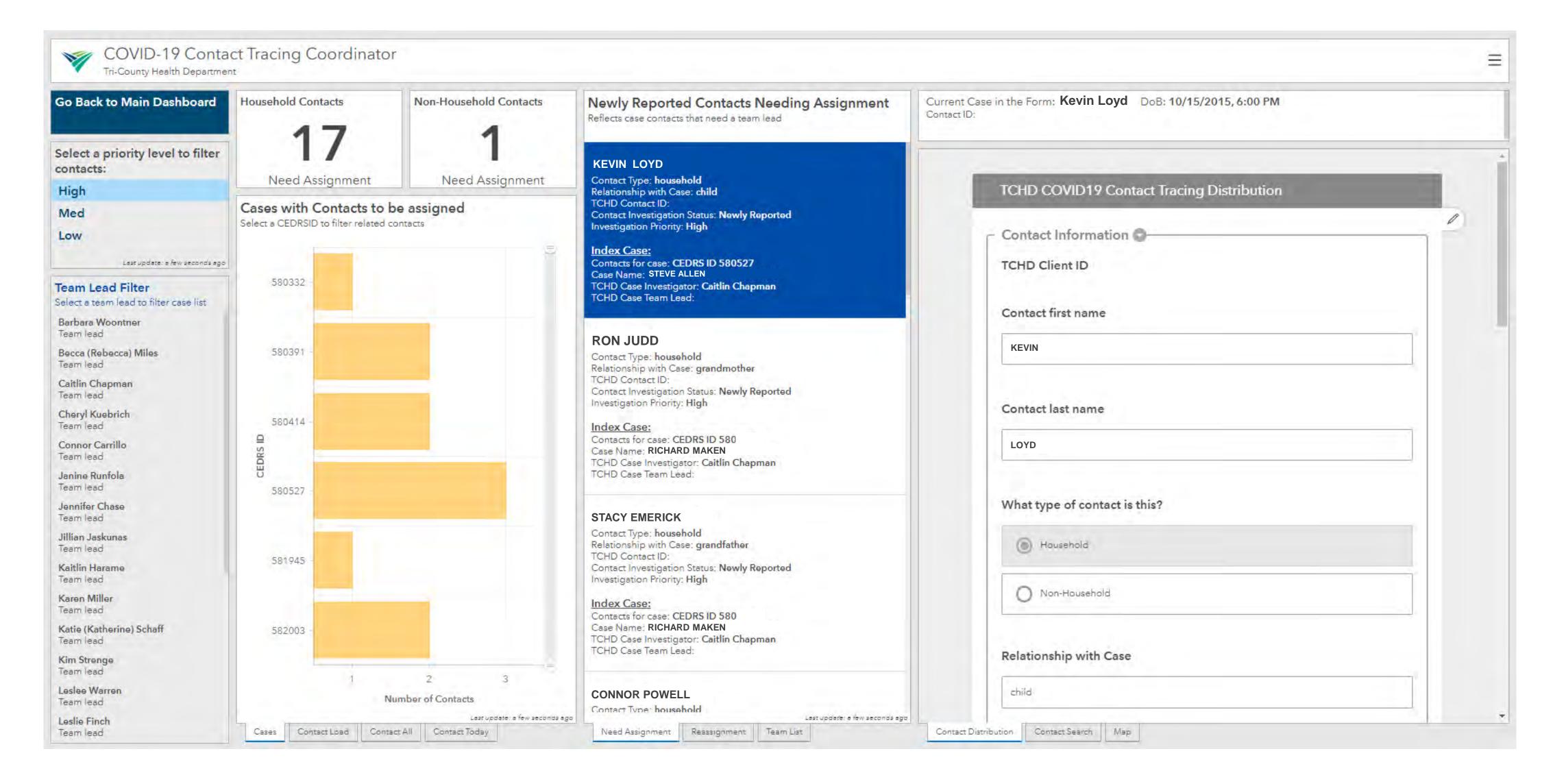


# **COVID19 Case Investigator**



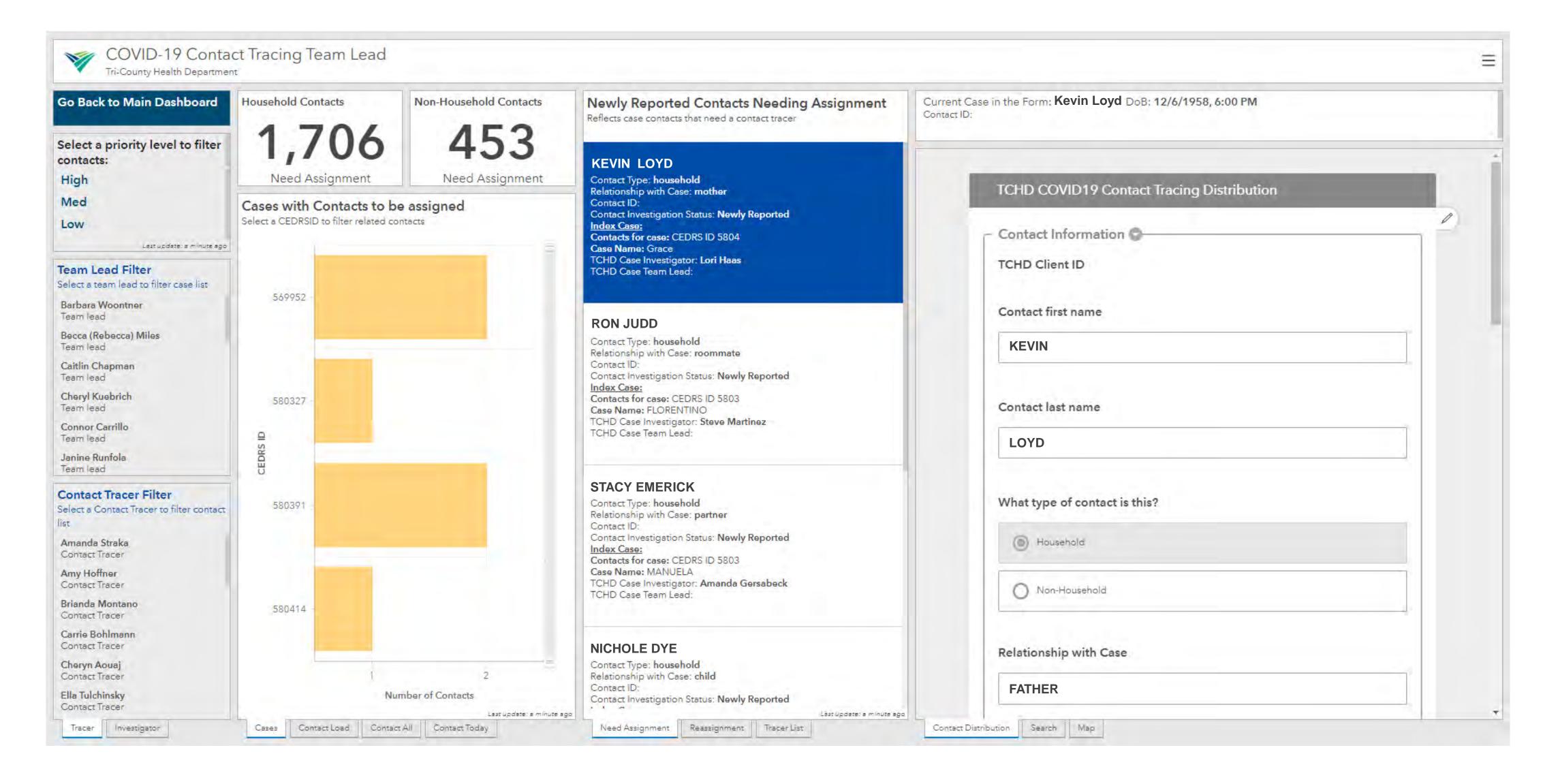


# **COVID19 Contact Tracing Coordinator**



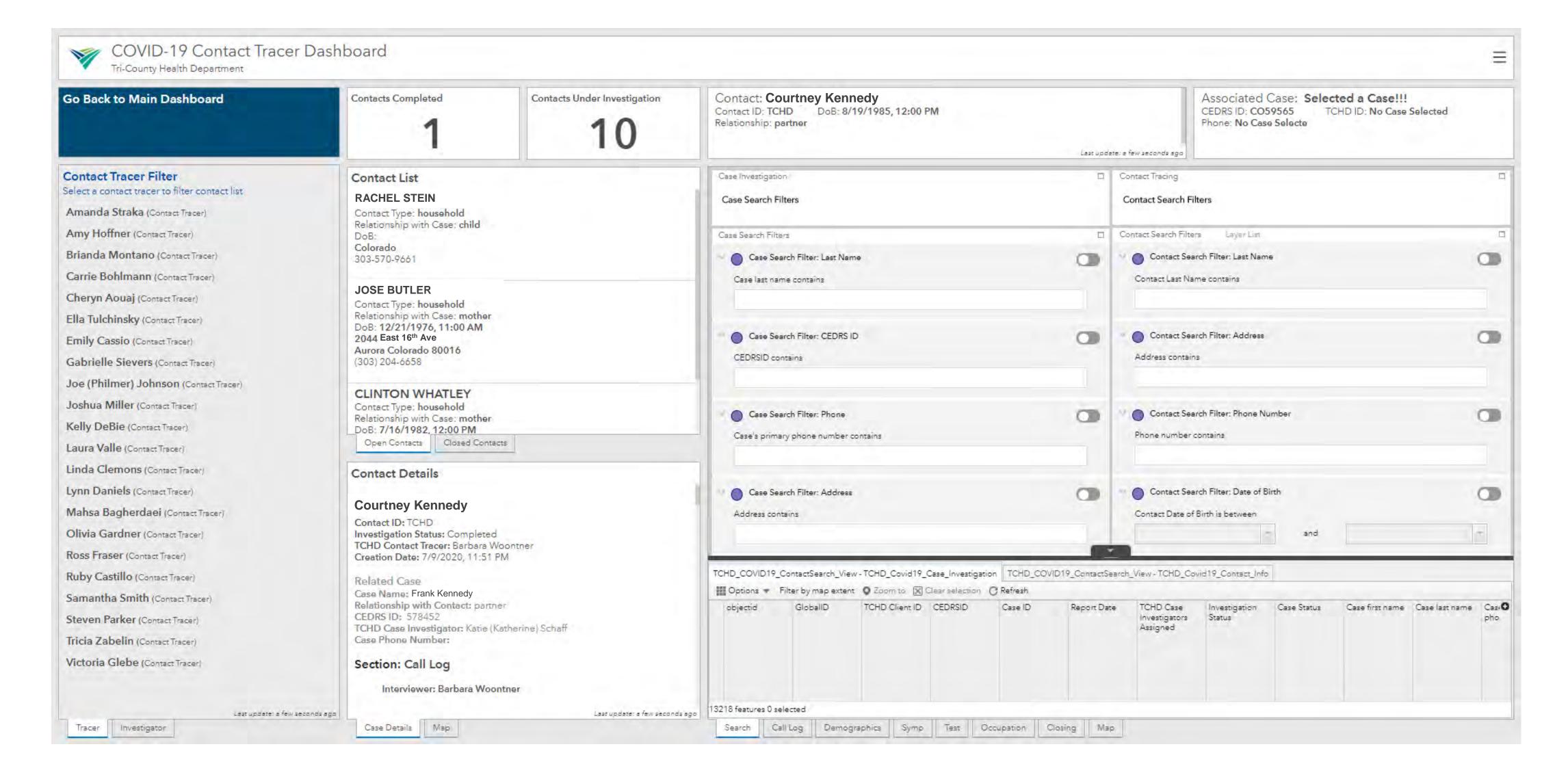


# **COVID19 Contact Tracing Team Lead**



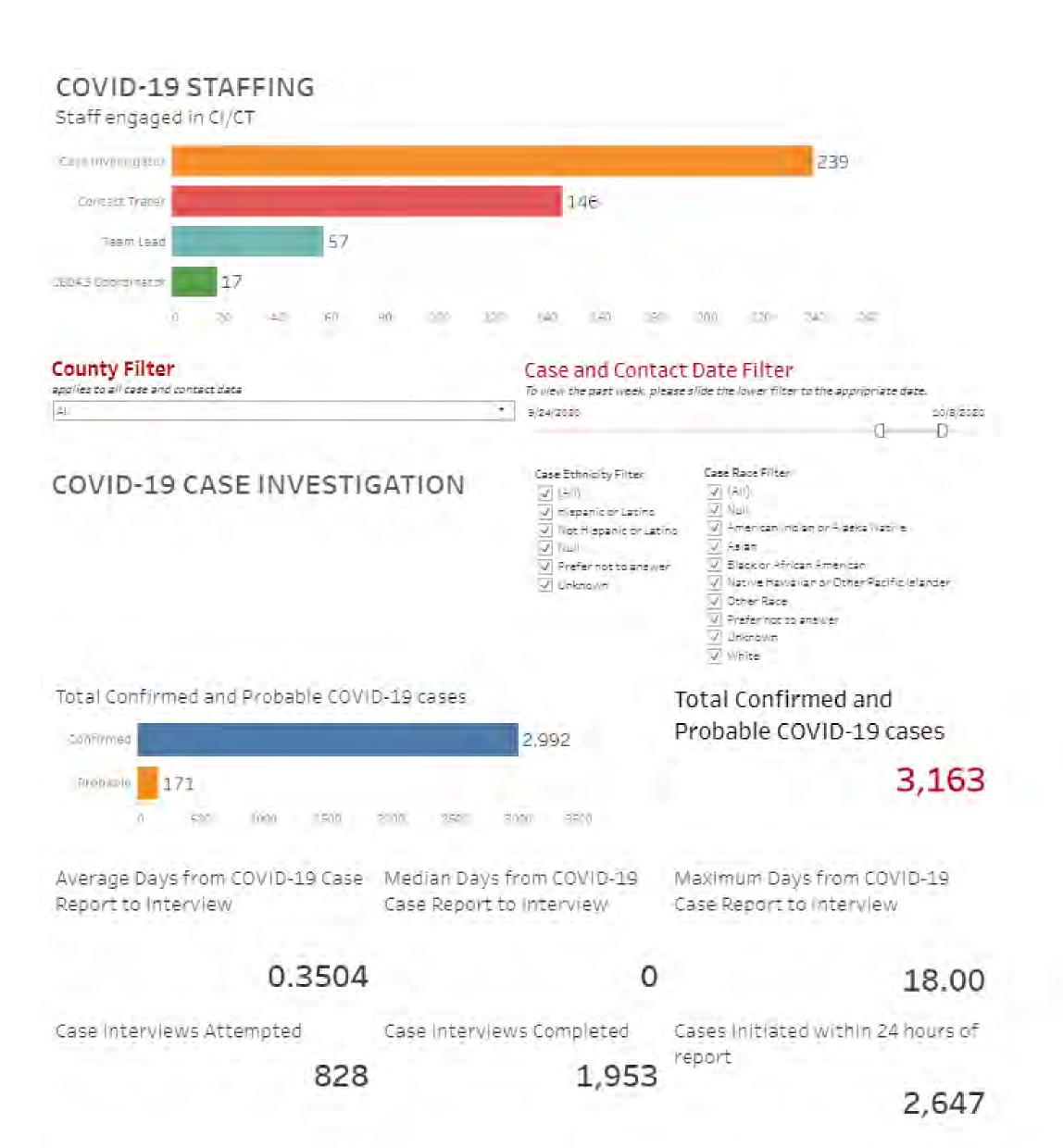


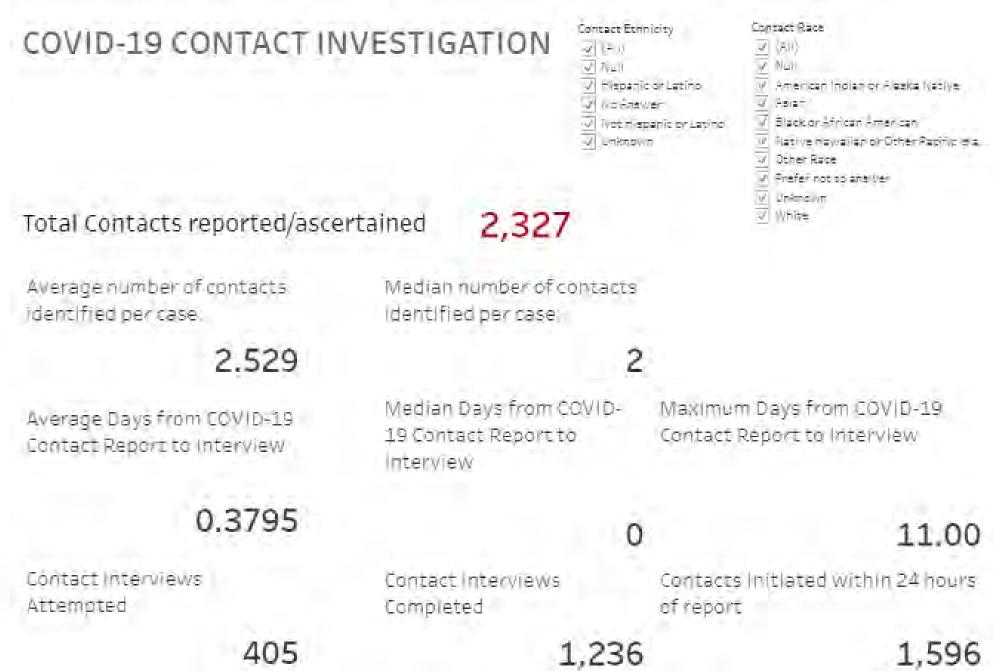
### **COVID19 Contact Tracer**





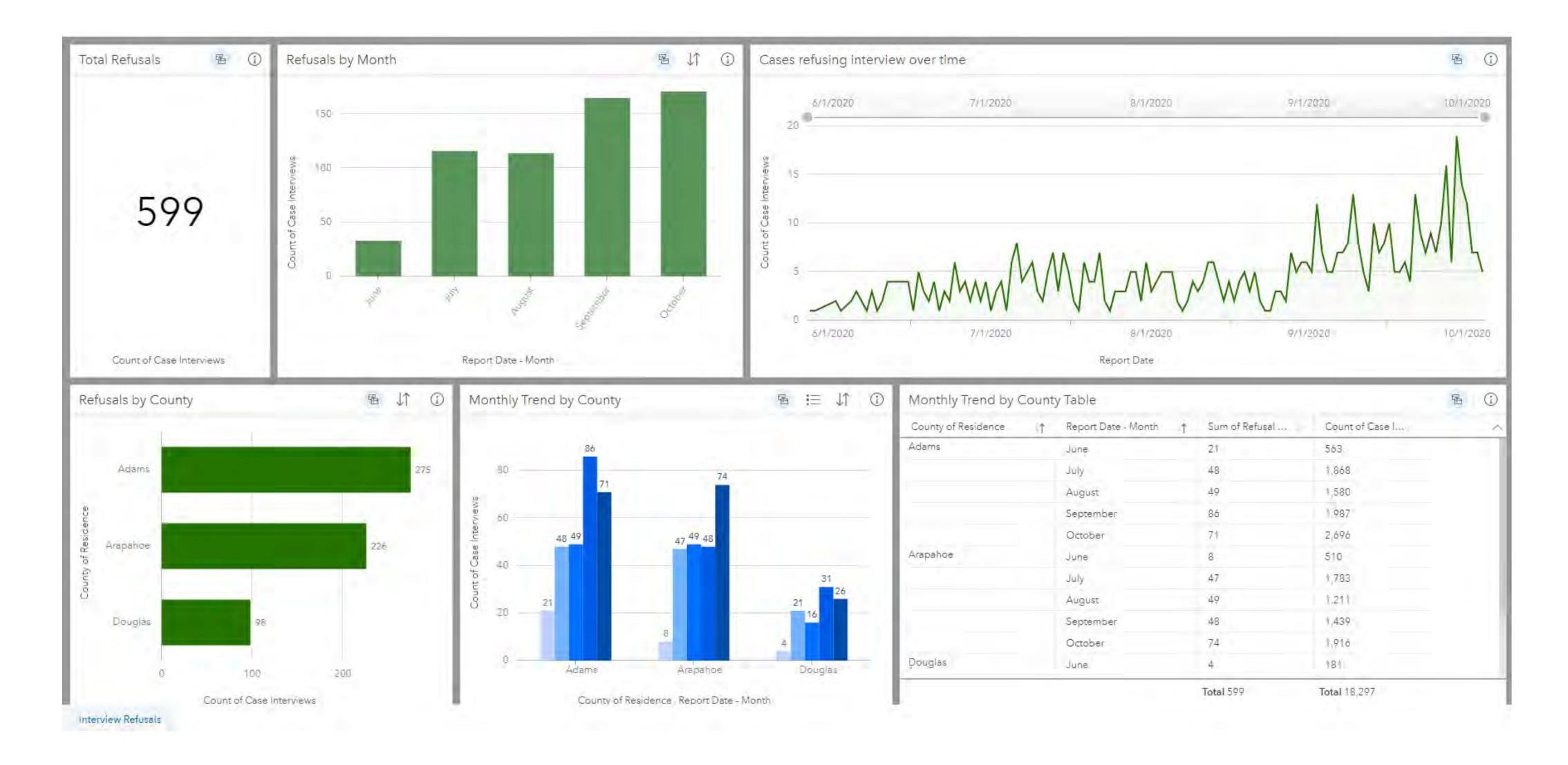
# **COVID19 Internal Dashboards**



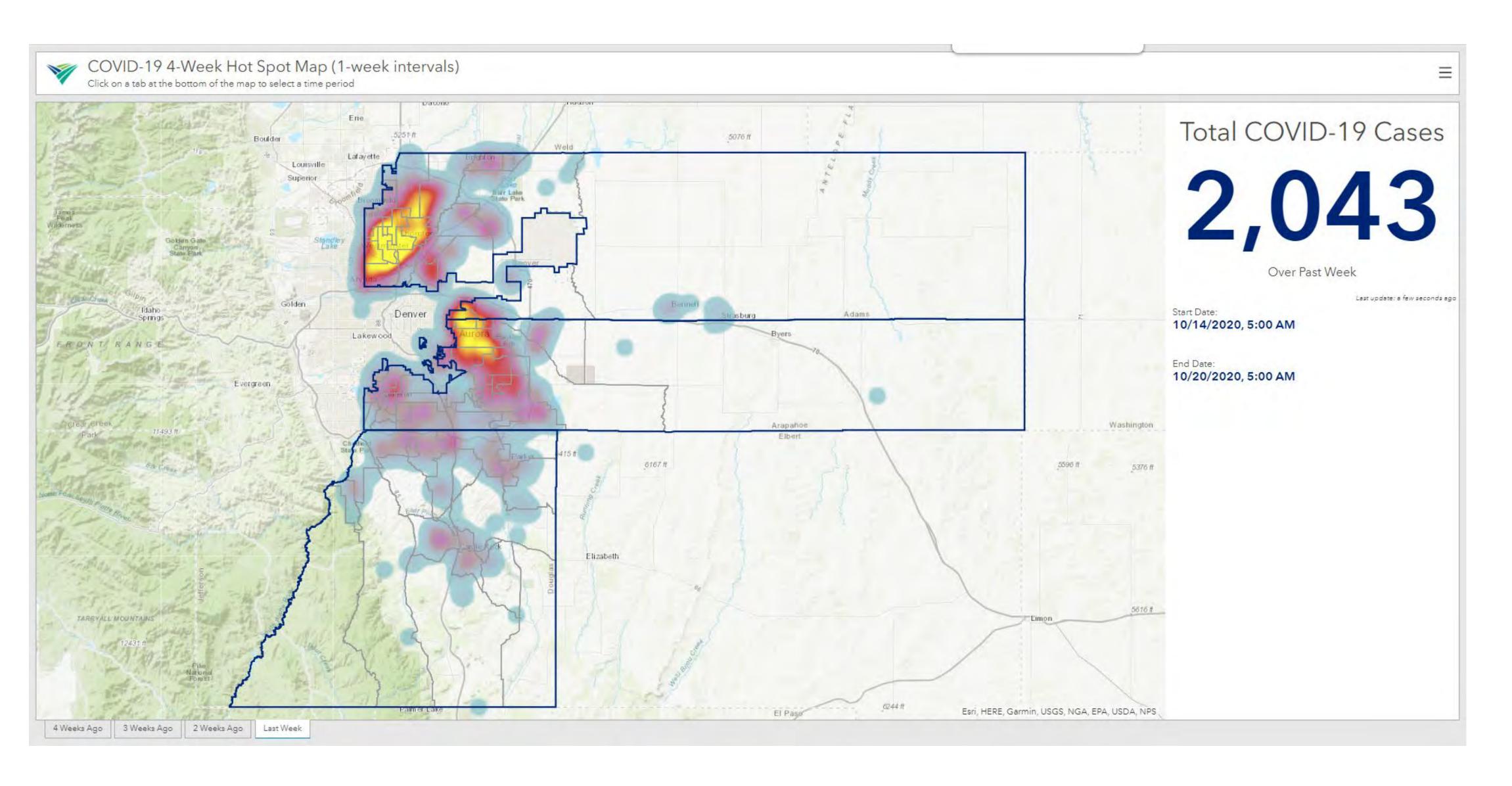




# **COVID19 Internal Dashboards**



# **COVID19 Internal Dashboards**





# **COVID19 Data Export to Public Dashboards**

Using FME Workbench

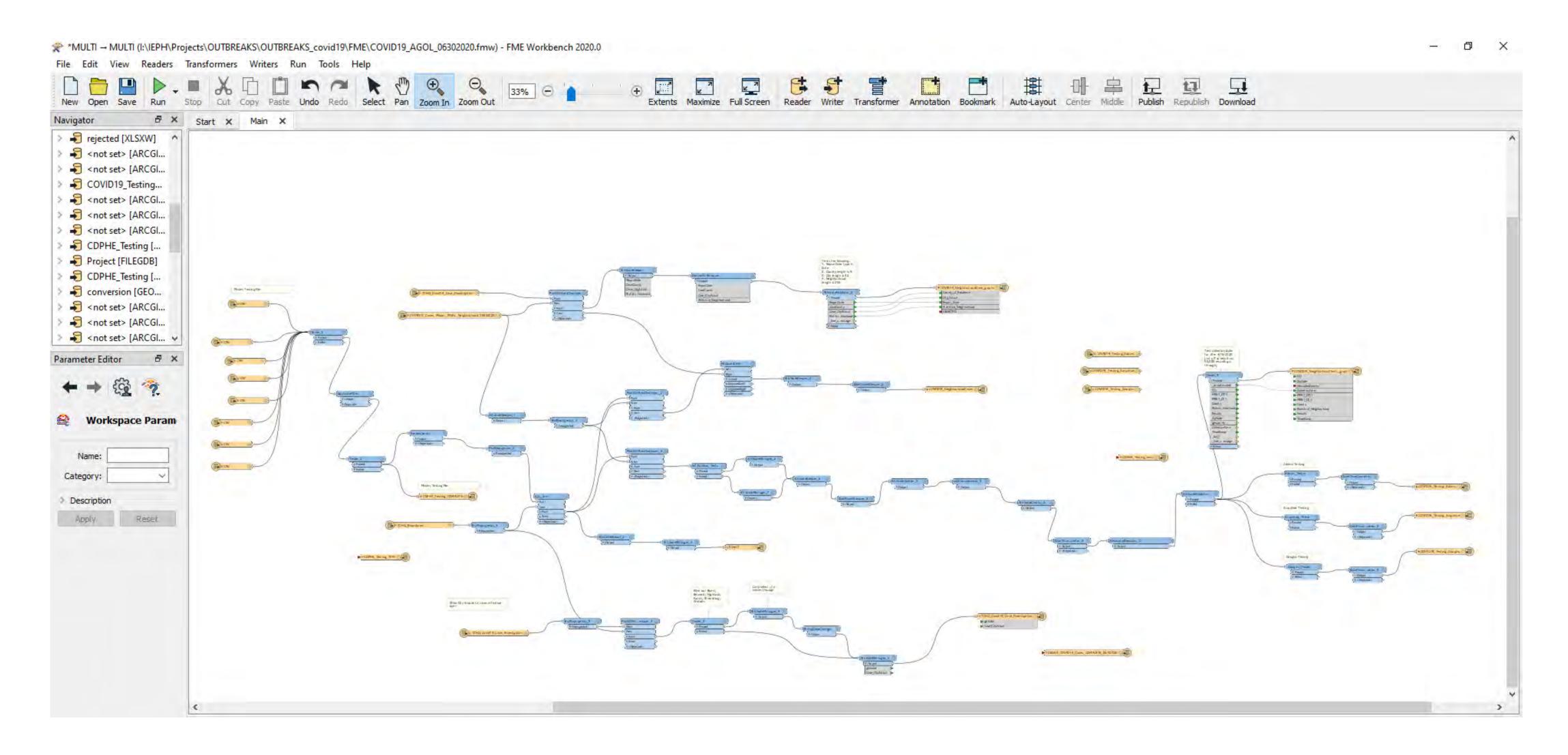




Tableau Dashboard



### COVID-19 Case Reporting (updated October 20, 2020)

Representing cases in Adams, Arapahoe, and Douglas Counties | Colorado

These data are for monitoring and surveillance purposes, and may differ from official data from the Colorado Department of Public Health and Environment (CDPHE). These differences may be explained by case investigation findings, differences in timing of data uploads and updates, etc. All county variances will be evaluated based on official data from CDPHE. TCHD is providing these data to allow for the evaluation of general trends across a host of relevant indicators

### Positive COVID-19 Cases

Adams, Arapahoe and Douglas Counties Cumulative Since 1/1/2020

26,897

### COVID-19 Deaths

Adams, Arapahoe and Douglas Counties Deaths among people with COVID Cumulative Since 1/1/2020 May not represent all COVID-19-related deaths

### COVID-19 Cases by County

Cases currently reported to Tri-County Health Department, These totals may be higher that daily total case counts.

Cumulative Since 1/1/2020



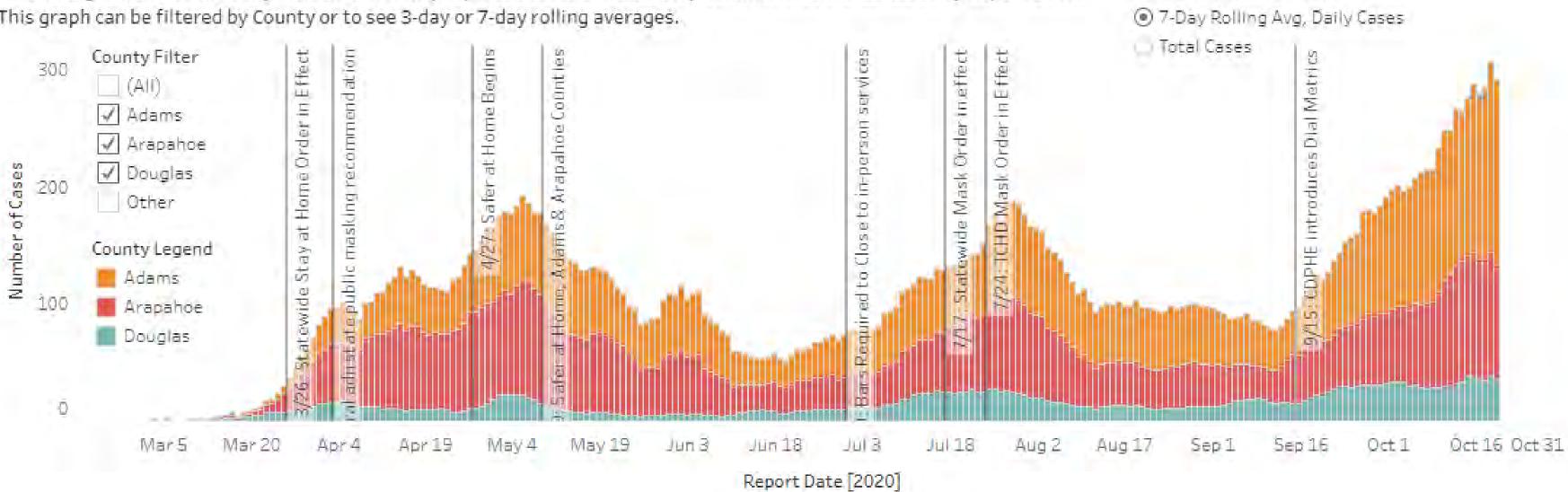
Statistic

(All)

3-Day Avg Total Cases

### Daily COVID-19 Cases by County

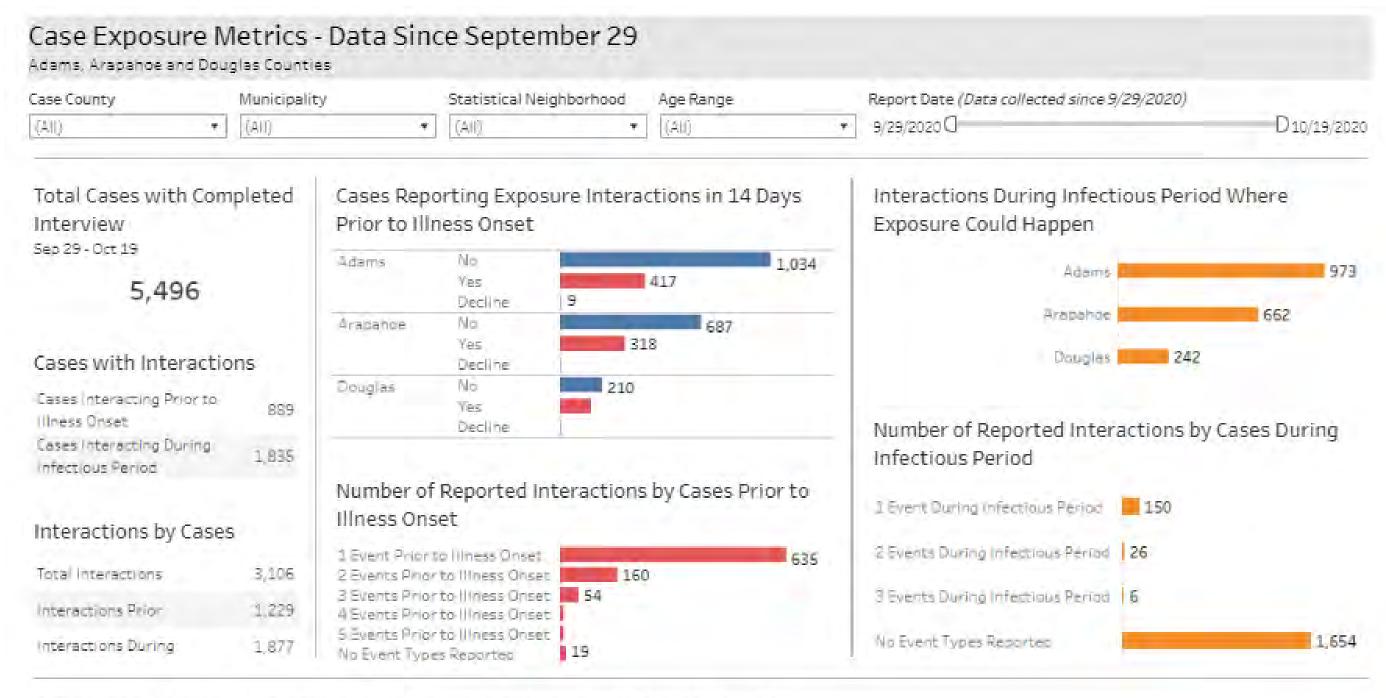
This histogram shows the daily incidence of newly reported cases of laboratory-confirmed COVID-19 cases by Report Date. This graph can be filtered by County or to see 3-day or 7-day rolling averages.



IIIIps.//uata.tcIIu.uig/coviu13/



### Tableau Dashboard



### Categories of Commonly Reported Places Cases Reported Going; Sep 29 - Oct 19

Note: Excludes interactions where no interaction type was supplied.

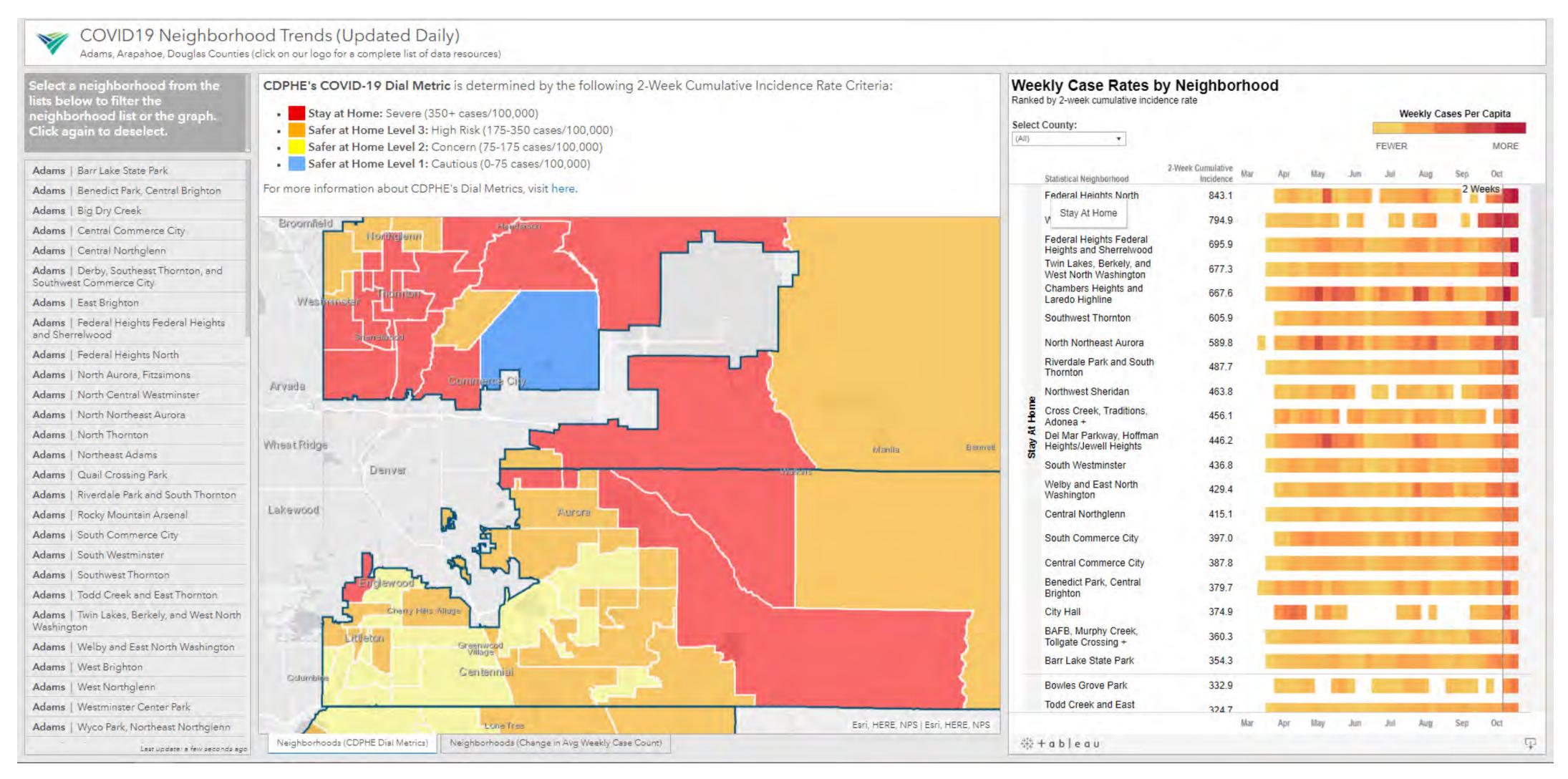
Departed in 14 Days Dries



https://data.tchd.org/covid19/



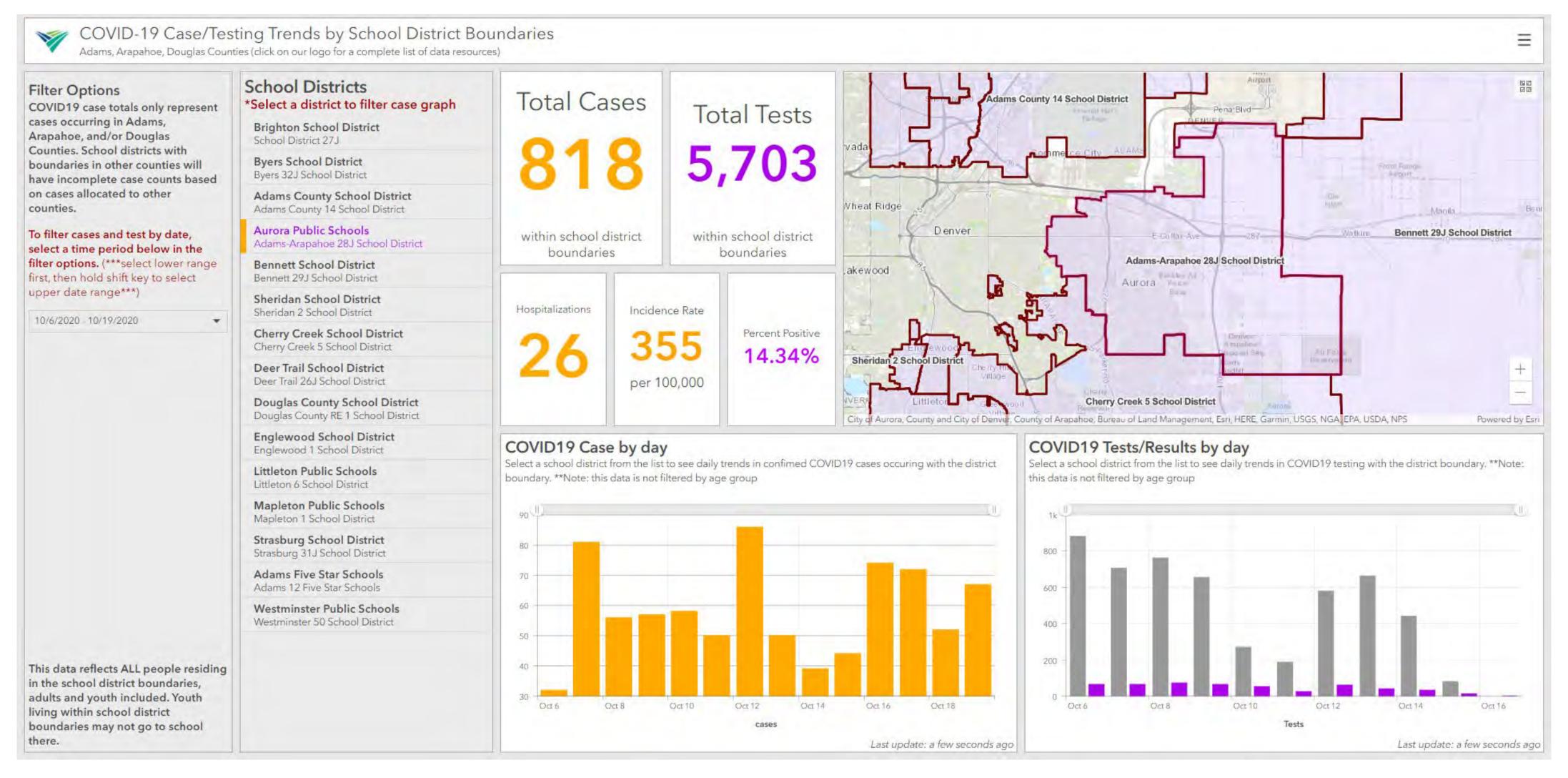
### **ArcGIS Online Dashboard**



https://tchdgis.maps.arcgis.com/apps/opsdashboard/index.html#/944b0a5b55ba467cb146f7646a65bc8f



### **ArcGIS Online Dashboard**



https://tchdgis.maps.arcgis.com/apps/dashboards/acc52b381eed47219319864b3db95890



# For questions contact: Adam Anderson

aanderson@tchd.org

Informatics, Epidemiology, and Health Planning Manager

To see dashboards in this presentation: <a href="https://data.tchd.org/covid19">https://data.tchd.org/covid19</a> resources/

