

The background of the top half of the page is a blurred image of a financial trading platform. It features several windows: a top window with a table of market data, a central window with a line chart for EUR/USD, and a bottom window with a 'Quote List' and 'World Markets' section. The text is overlaid on this background.

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# MID-YEAR REPORT

# COVID-19

# DELAWARE COUNTY, OHIO

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**Delaware General Health District**  
*Dedicated to Your Health*

PUBLISHED 07/2020

# Delaware General Health District

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## TABLE OF CONTENTS

<b>Introduction</b> .....	<b>4</b>
<b>COVID-19 Disease Reporting</b> .....	<b>5</b>
<b>Delaware County Demographics</b> .....	<b>6</b>
<b>COVID-19 Disease Data Overview</b> .....	<b>7</b>
<b>Data Timelines</b> .....	<b>10</b>
<b>Event Timeline</b> .....	<b>11</b>
<b>Disease Data by Age</b> .....	<b>12</b>
<b>LTCF Data</b> .....	<b>13</b>
<b>Maps</b> .....	<b>14</b>
<b>Exposure Data</b> .....	<b>15</b>
<b>COVID-19 Outbreaks</b> .....	<b>15</b>
<b>Conclusions</b> .....	<b>16</b>

## INTRODUCTION

Coronavirus disease 2019 (COVID-19) is a viral respiratory illness caused by a new coronavirus. Coronaviruses are a large family of viruses that are common in people and many different species of animals, including camels, cattle, cats, and bats. COVID-19 was first reported in Wuhan, Hubei Province, China in November 2019. Over the next few months, the illness spread to almost every country. COVID-19 was declared a pandemic by the WHO on March 11, 2020. The Centers for Disease Control and Prevention (CDC) and global partners are actively working to slow the spread of COVID-19.

The COVID-19 Mid-year Report represents an overview of the probable and confirmed cases of COVID-19 within the jurisdiction of the Delaware General Health District (DGHD) from January to July 2020.

Data for this report was acquired through Nightingale Notes (electronic record system of DGHD), Ohio Disease Reporting System (ODRS), and local data collected by DGHD Epidemic Intelligence staff.

## COVID-19 DISEASE REPORTING

COVID-19 is a class A reportable disease in Ohio meaning cases of COVID-19 must be reported within twenty-four hours to the local health district in which the person resides. Portions of Delaware County are annexed to Columbus Public Health and Franklin County Public Health based on tax jurisdiction, including Dublin, Washington Township, Columbus and Westerville. If a resident would test positive for COVID-19 in one of those jurisdictions, then the public health department in Columbus or Franklin County would handle that case, even if they reside in Delaware County.

Case definitions and reporting information is obtained using the Ohio Department of Health Infectious Disease Control Manual which can be found here:

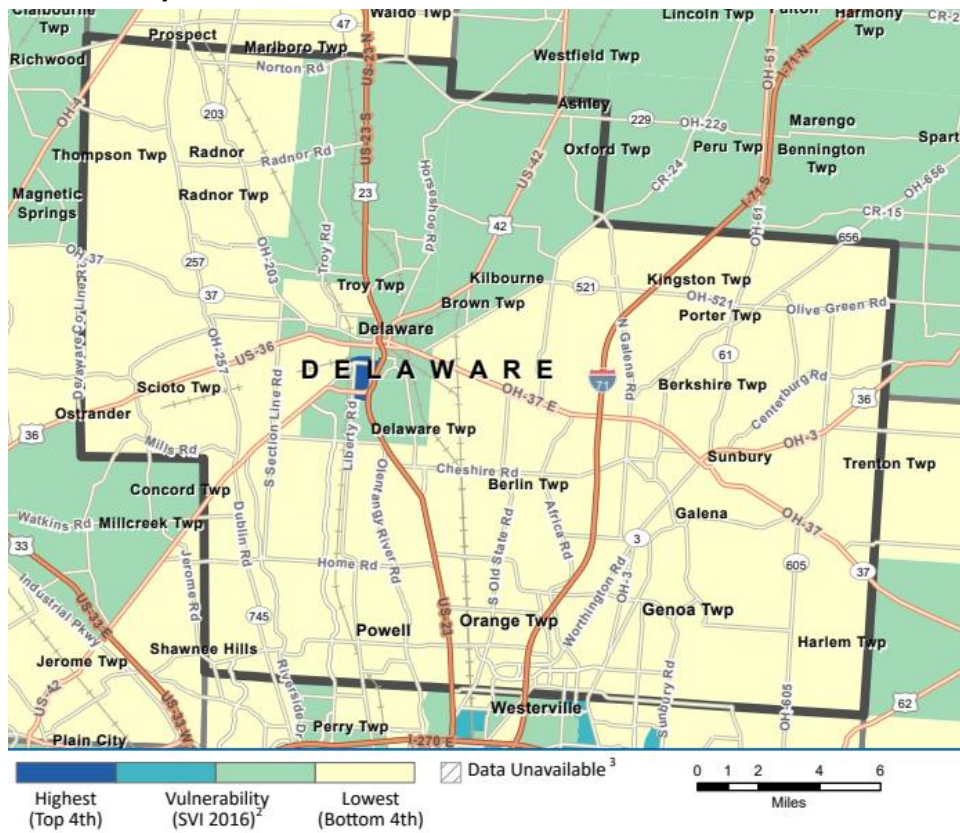
[https://odh.ohio.gov/wps/wcm/connect/gov/49c54aa2-6d58-45e1-9434-72ca8b4ea635/section-3-covid19.pdf?MOD=AJPERES&CONVERT\\_TO=url&CACHEID=ROOTWORKSPACE.Z18\\_M1HGGIK0N0JO00QO9DDDDM3000-49c54aa2-6d58-45e1-9434-72ca8b4ea635-naUQ8Vg](https://odh.ohio.gov/wps/wcm/connect/gov/49c54aa2-6d58-45e1-9434-72ca8b4ea635/section-3-covid19.pdf?MOD=AJPERES&CONVERT_TO=url&CACHEID=ROOTWORKSPACE.Z18_M1HGGIK0N0JO00QO9DDDDM3000-49c54aa2-6d58-45e1-9434-72ca8b4ea635-naUQ8Vg)

Numbers are subject to change due to jurisdiction changes and when reportable conditions are diagnosed and reported.

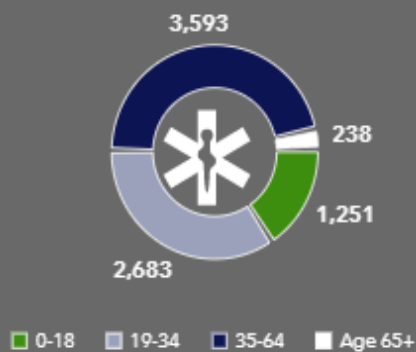
# DELAWARE COUNTY DEMOGRAPHICS

Total Population:	209,177
DGHD Jurisdiction Population:	189,436
Approx. Number of Households:	74,243
Median Age of Total Population:	38.3
Percent of Population Below Poverty Level:	5%
Approx Number of Individuals Over the Age of 65:	26,726

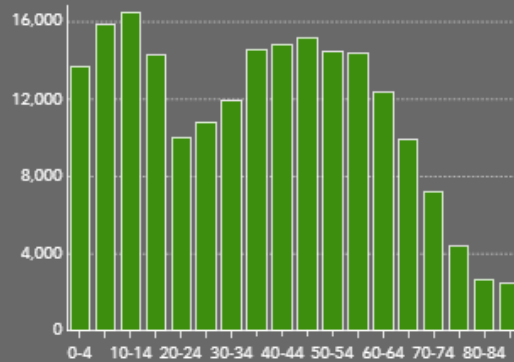
## CDC's Social Vulnerability Index 2016:



## POPULATION NO HEALTH INSURANCE (ACS)



## POPULATION BY AGE

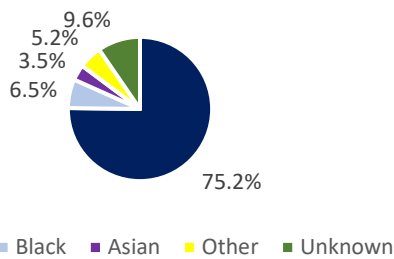


# COVID-19 DISEASE DATA OVERVIEW

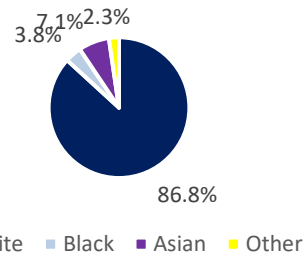
AS OF 07/17/2020:		
	DELAWARE COUNTY	OHIO
CONFIRMED CASES	624	66,540
PROBABLE CASES	137	4,061
TOTAL CASES	761	70,601
RECOVERED	477	48,330
HOSPITALIZATIONS (TOTAL)	47	9,324
DEATHS	12	3,103
MEDIAN AGE OF DECEASED CASES	85	80
AGE RANGE	<1-90+ YEARS	<1- 109 YEARS
MEDIAN AGE	39	43
SEX	50% MALE 50% FEMALE	49% MALE 50% FEMALE
% HEALTHCARE WORKERS	17%	12%

DELAWARE COUNTY ADDITIONAL DATA, PROBABLE AND CONFIRMED CASES:	
CASES WITH PRE-EXISTING MEDICAL CONDITIONS	54.4%
ASYMPTOMATIC CASES	10.6%
DISEASE RATE	401.7 cases per 100,000 people

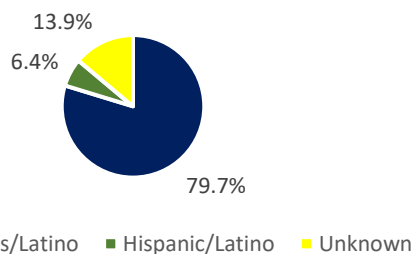
Delaware County **Cases** by Race



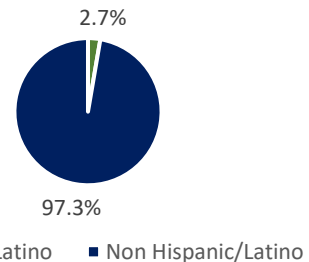
Delaware County **Population** by Race



Delaware County **Cases** by Ethnicity

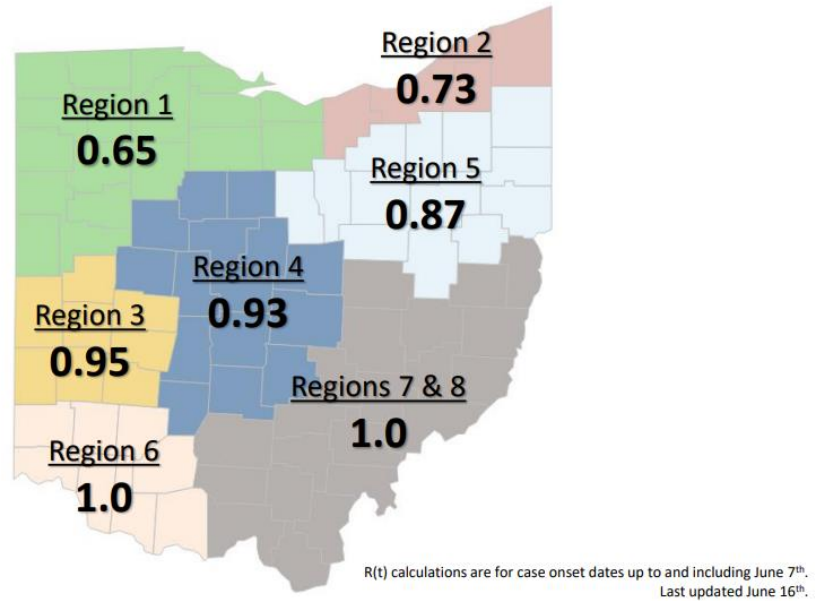


Delaware County **Population** by Ethnicity

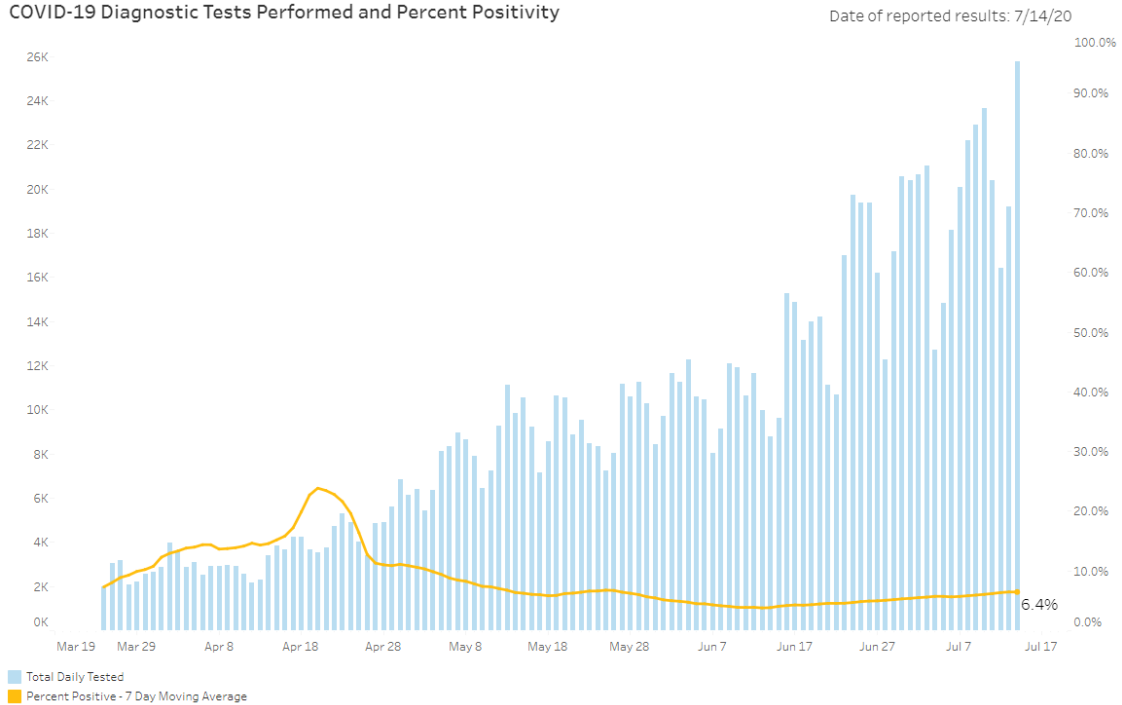


## COVID-19 DISEASE DATA OVERVIEW, CONTINUED

The R0 (R naught) represents the number of people, on average, that a person will spread a disease to. The Centers for Disease Control and Prevention estimate that COVID-19's R0, without interventions, to be 2.5. With Ohio's interventions, the R0 for the state measured at 0.87 on June 7.



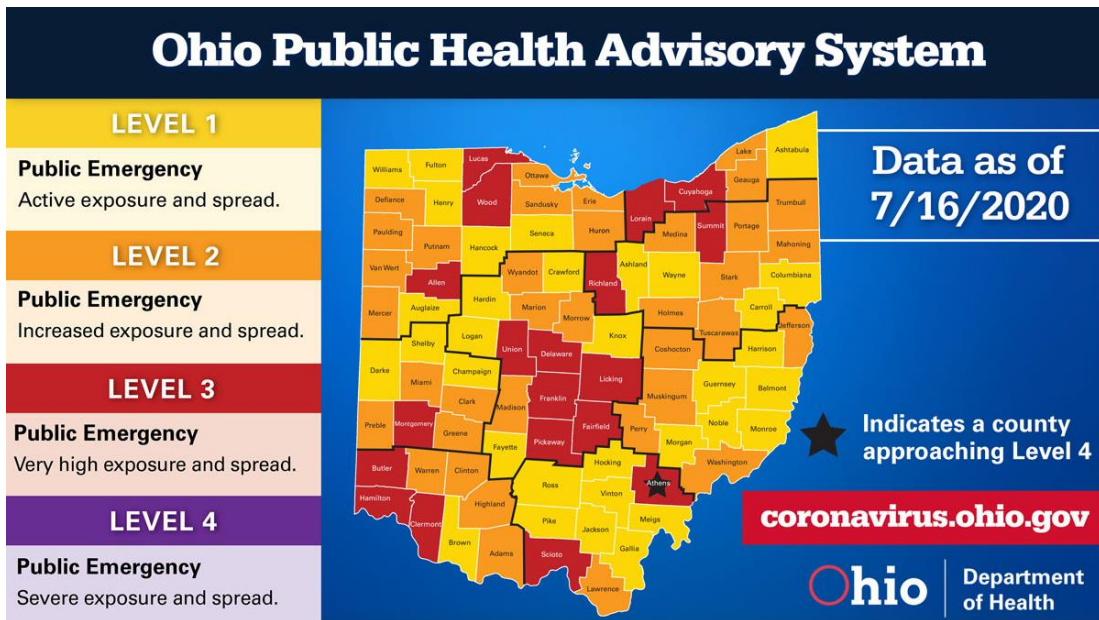
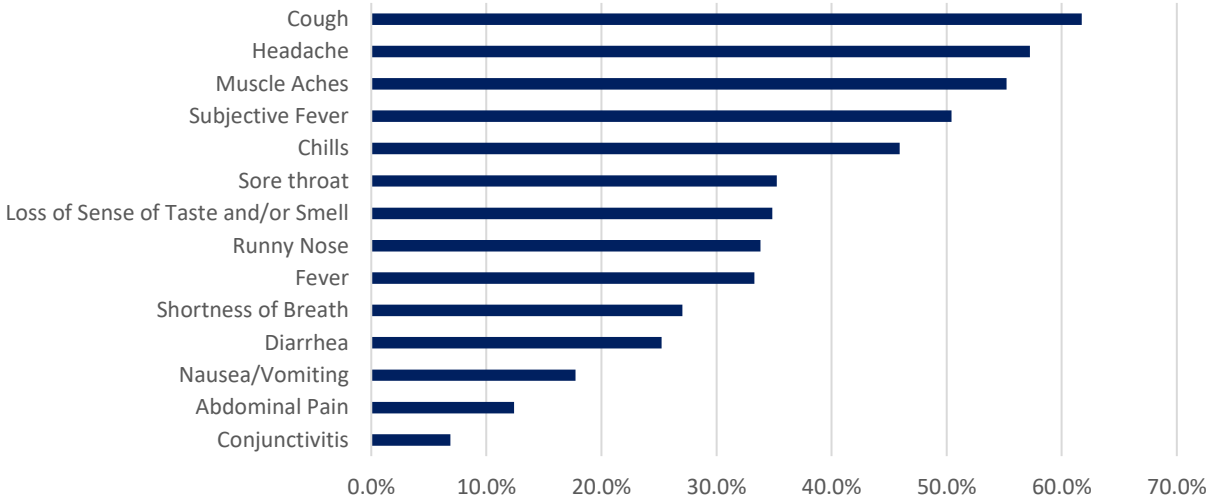
COVID-19 Diagnostic Tests Performed and Percent Positivity



At this time, number of tests performed and percent positivity data is only available at the state-level and not county-level.

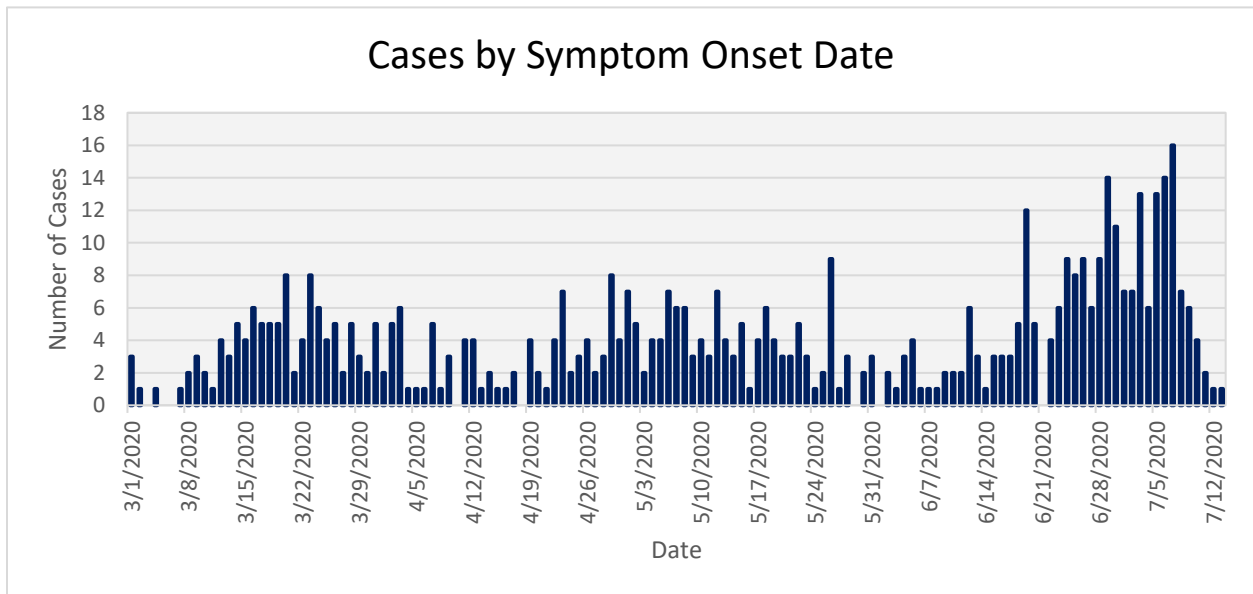


### Percent of Cases with Symptom

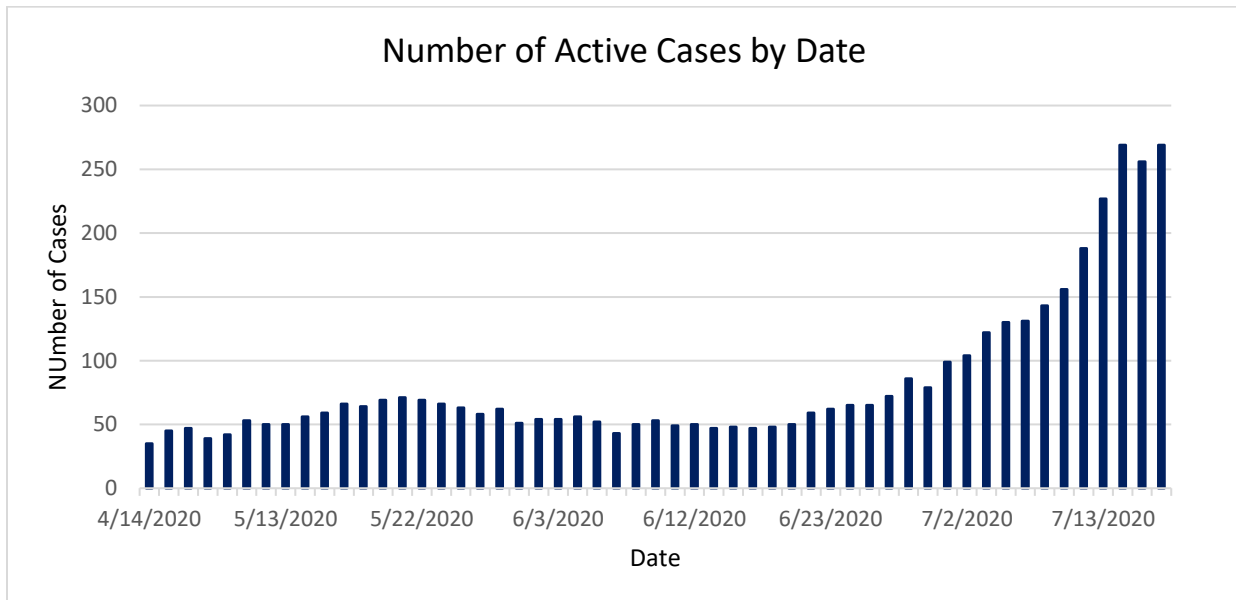


How was case identified?	% of Cases
Clinical Evaluation	78.22%
Contact tracing	19.39%
Unknown	2.39%

## DATA TIMELINES

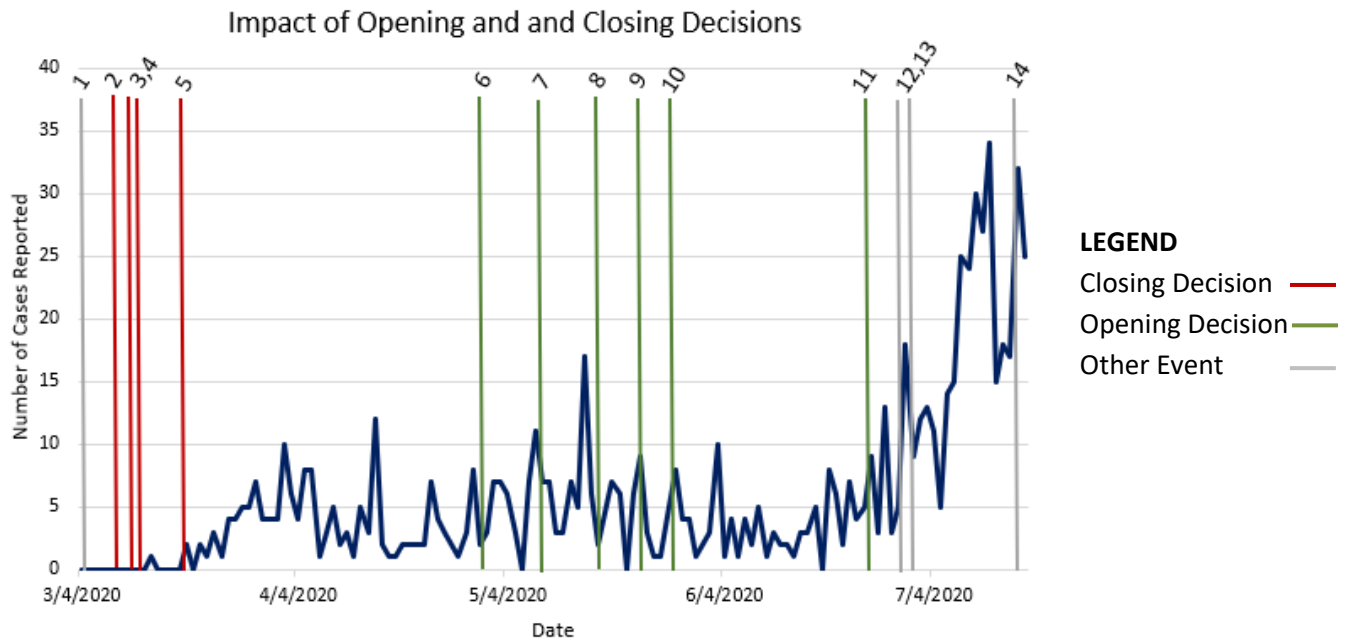


\*Information above is based on interviews completed. Therefore people who were not able to be reached for an interview, are not included in the data above.



\*We provide real-time data to the public, but a drawback to real-time data is that during disease investigations numbers can change for a variety of reasons. As we investigate cases, sometimes we find out they belong in another public health jurisdiction. We then transfer them to the appropriate jurisdiction and subtract them from all of our categories.

## EVENT TIMELINE



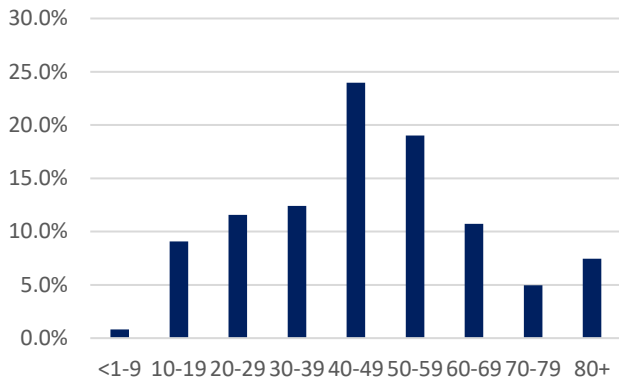
TIMELINE OF EVENTS THAT MAY AFFECT TRENDS IN DATA		
Timeline #	DATE	EVENT
1	03/04/2020	Ohio Governor, Mike Dewine, convenes a group of health advisors to prepare for coronavirus. Currently, there are no confirmed cases and one person under investigation.
2	03/12/2020	Gov. DeWine and Health Director Acton issue an order banning mass gatherings of 100 or more people, including stadiums, arenas and theaters. It also applies to parades, fairs and festivals.
3	03/15/2020	Gov. DeWine announces an order closing all bars and restaurants to in-house patrons effective at the end of the day.
4	03/16/2020	K-12 schools close at the end of the day, under the governor's order.
5	03/23/2020	Ohio's new stay-at-home order takes effect and lasts until April 6.
6	05/04/2020	Manufacturing Restarts
7	05/12/2020	Retail Reopens
8	05/15/2020	Personal Services Resume (hair salons, tattoos, etc)
9	05/21/2020	Restaurants and bars can begin serving guests indoors. Campgrounds reopen.
10	05/26/2020	Gyms Reopen
11	05/31/2020	Daycares open
12	06/29/2020	Hospitalizations rise: Gov. DeWine reports an increase in hospitalizations for the first time since late April.
13	07/02/2020	Gov. Mike DeWine introduces the Public Health Advisory Alert System, a color-coded system for coronavirus risk in the state's 88 counties.
14	07/16/2020	Delaware County reaches alert level RED

State data showing the timeline of COVID-19 policies, cases, and deaths can be found here:

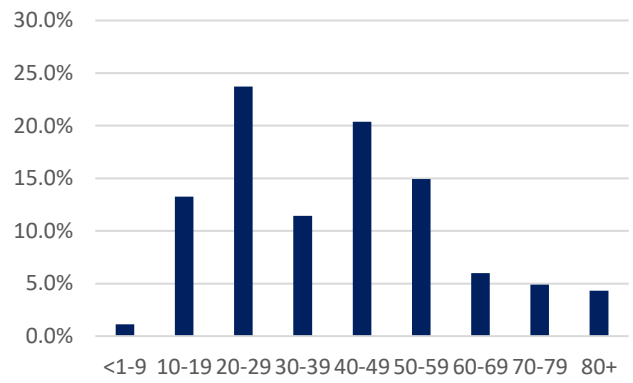
<https://coronavirus.jhu.edu/data/state-timeline/new-confirmed-cases/ohio/0>

## DISEASE DATA BY AGE

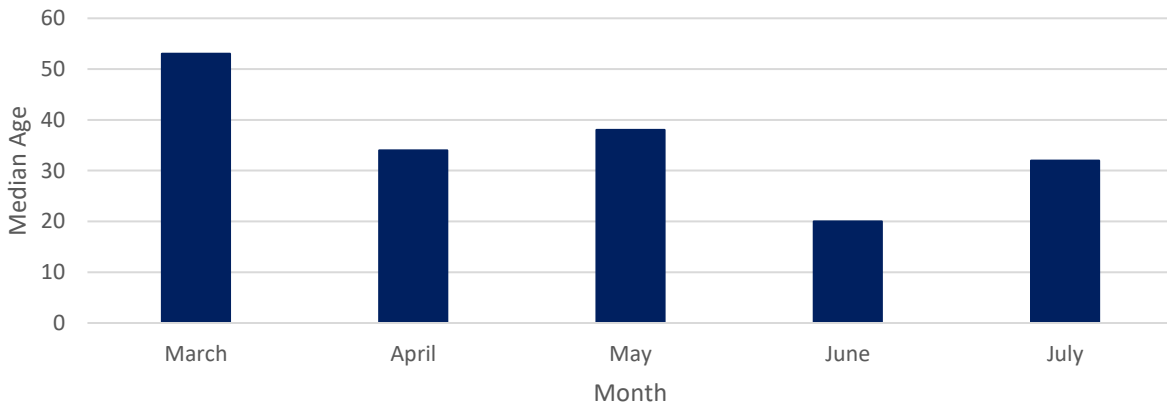
Delaware County Cases by Age Group  
**Feb-April**



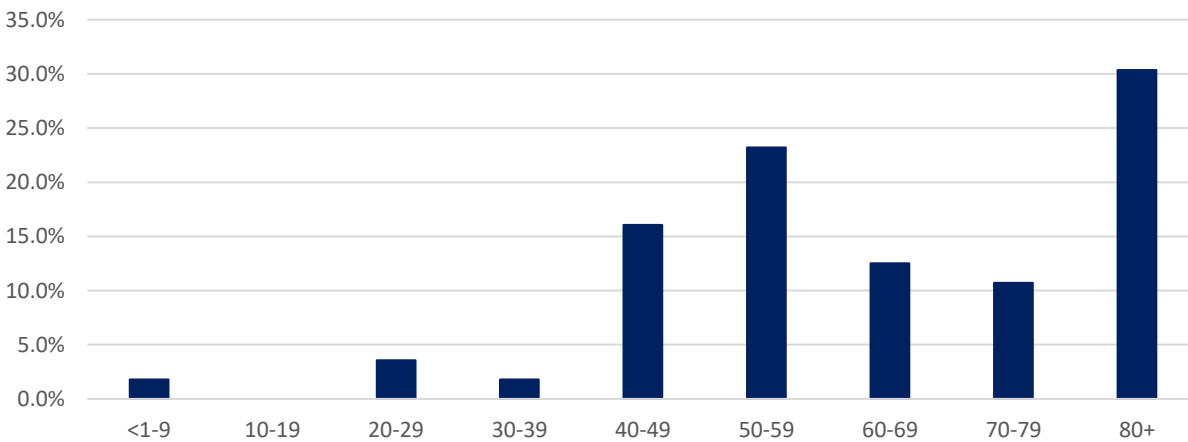
Delaware County Cases by Age Group  
**May-July**

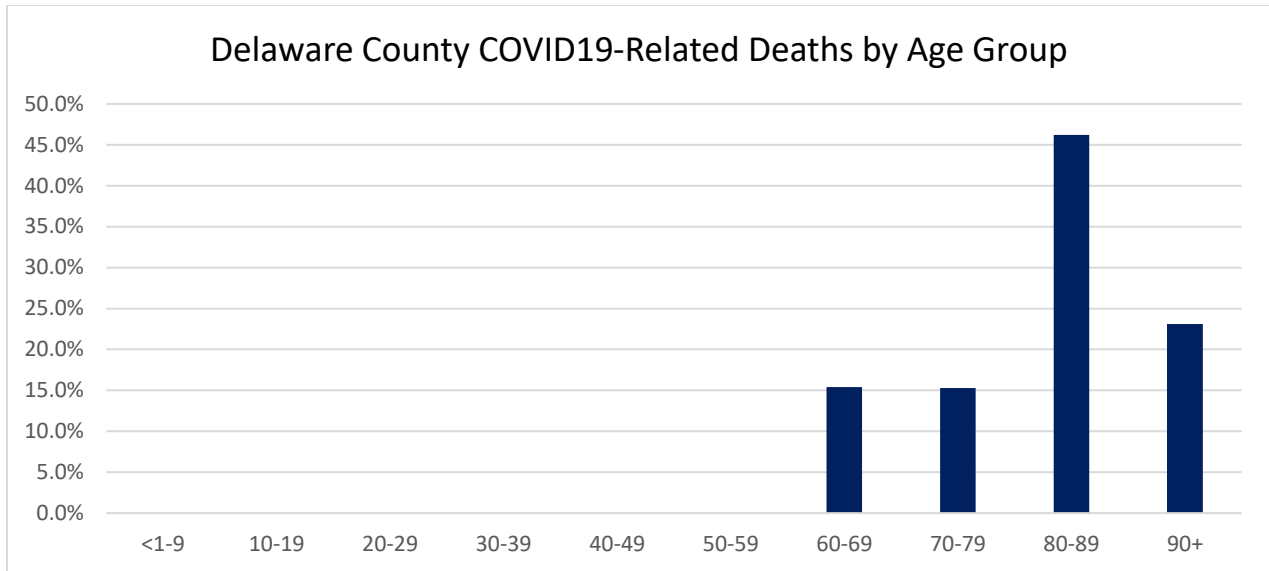


Median Age of Cases by Month



Delaware County Hospitalized Cases by Age Group





## LTCF DATA

### Cases by Long-Term Care Facilities (LTCF) as of 07/16/2020:

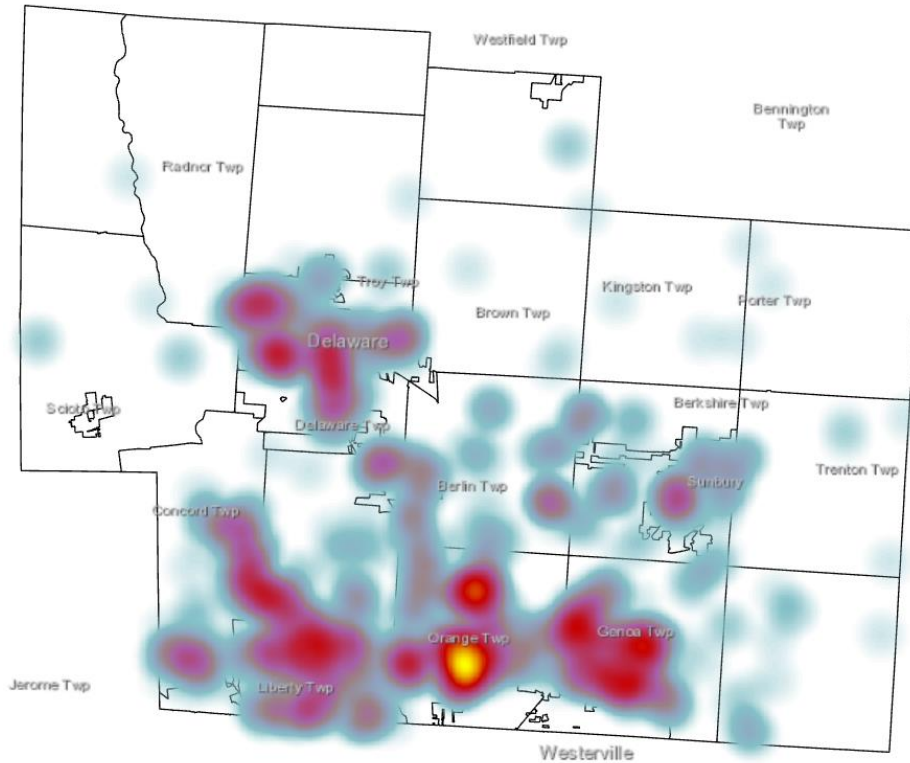
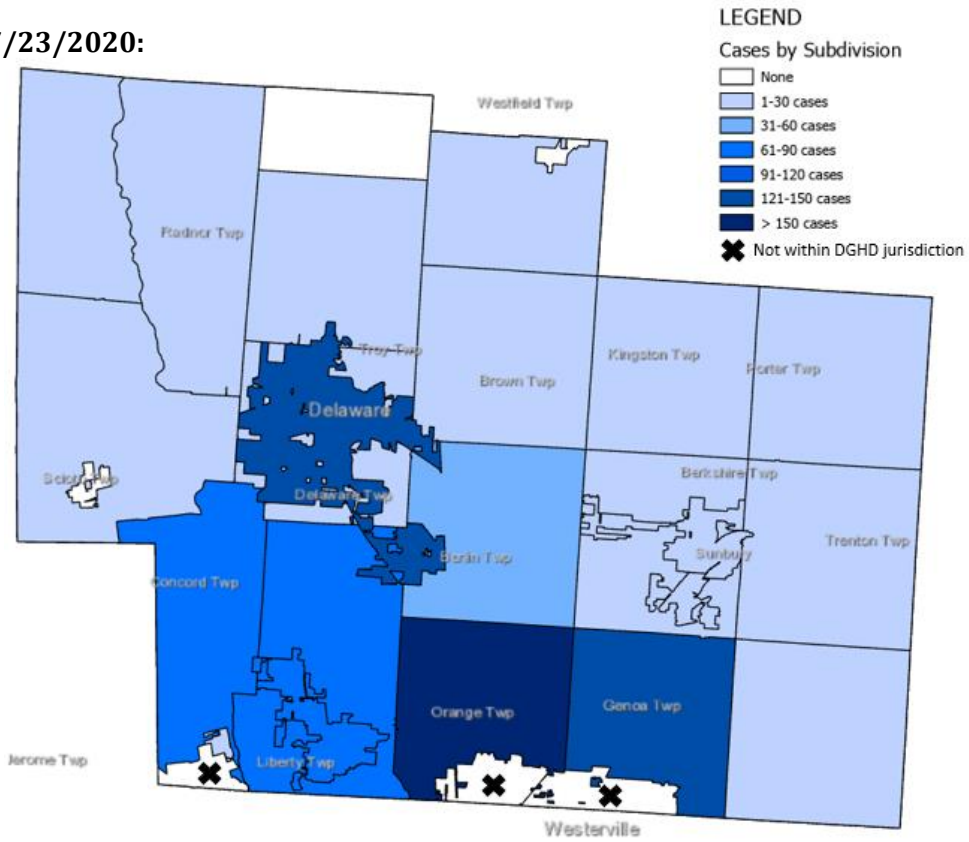
County	Facility Name	Facility Type	Current Week Resident Cases	** Cumulative Resident Cases	Current Week Staff Cases	** Cumulative Staff Cases
Delaware	Arbors at Delaware	Nursing Home	0	1	0	5
	Capri Gardens	Nursing Home	0	1	0	0
	Country-View of Sunbury	Assisted Living	0	1	0	0
	First and Main Lewis Center	Assisted Living	0	16	0	3
	First and Main Lewis Center	Intermediate Care Facility	0	16	0	3
	The Inn at Bear Trail	Assisted Living	0	8	0	0
	The Inn at Olentangy Trail	Assisted Living	0	4	0	2
	Willowbrook at Delaware Run	Nursing Home	0	0	0	2

<https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/long-term-care-facilities/cases>

Number of deaths in DGHD LTCFs	10
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# MAPS

As of 07/23/2020:



## EXPOSURE DATA

Exposure Type	% of Cases
Healthcare contact with another lab confirmed case	9.4%
Community contact with another lab confirmed case	23.8%
Household contact with another lab confirmed case	25.5%
Known contact with another US lab confirmed case (combines community, household, and other contacts)	62.8%
Travel to non-US country	1.6%
Unknown	37.4%

## COVID-19 OUTBREAKS

Generally, an outbreak is defined as two or more cases with an epidemiological link. If an outbreak is determined, the DGHD initiates an outbreak investigation to confirm the agent, collect information to better define the outbreak, and recommend prevention/control measures. Outbreaks are counted in the data below if the epidemiological link is in Delaware County. Delaware County residents linked to outbreaks in other jurisdictions, are not counted in the data below. The DGHD investigated 11 outbreaks related to COVID-19 from March to July 2020.

Outbreak Facility Type	Outbreak Identifier	Number of people ill
Healthcare-Associated	Outbreak A	5
	Outbreak B	6
	Outbreak C	8
	Outbreak D	3
	Outbreak E	19
Workplace	Outbreak F	4
	Outbreak G	23
	Outbreak H	3
	Outbreak I	10
	Outbreak J	3
Travel	Outbreak K	10

## CONCLUSIONS

The data from this report is used to inform, drive future communicable disease investigations, planning of resources, policy development, training, and education.

Median age, sex, median age of deceased cases, and age range of cases in Delaware County are in line with what the state of Ohio is reporting. At this time, the data suggests that there are more cases of COVID-19 in minority racial and ethnic groups in the county compared to the relative population. This information will be utilized by the DGHD when determining where testing and other resources are provided and distributed.

When an individual is determined to be deceased, a thorough review of medical records is completed to determine if the cause of death was due to COVID-19. Only deaths determined to be COVID-19 related are included in our death data. Individuals who have a positive antibody test are not included into the case numbers until an interview is completed to determine if the individual meets the clinical or epidemiological criteria to become a case. While reports of cases are increasing, deaths and hospitalizations have decreased over time. However, hospitalizations and deaths can lag by several weeks or months after a surge of cases. These trends will continue to be closely monitored by the DGHD, especially as the influenza season approaches.

Testing positivity rate is unavailable at the county-level due to the de-centralized structure of testing. Only positive cases are required to be reported to DGHD. In order to determine the percentage of cases who test positive, the total number of negative tests is needed.

While it is important to note significant events when analyzing the data overtime, it is also important to consider dates/holidays where people are more likely to gather such as Mother's Day, Father's Day, Independence Day, etc. Additionally, it can take up to 14 days to show symptoms after exposure. Therefore, cases may lag up to 14 days after a significant event/gathering.

There has been a shift in the ages of cases being affected by COVID19 overtime. The median age has dropped by approximately 20 years from March to July 2020. This may be influenced by stay at home orders where community spread among those not in a congregate setting increased over time as more people were out and exposed in the community. As the state re-opened, the DGHD observed an increase in cases in the twenty-year-old age bracket. Data collected in interviews show many of these individuals attended group events, frequented bars or parties, or traveled to higher-risk areas. This information will be utilized by the DGHD when forming public information messaging in the future to reduce community transmission. In addition, the DGHD is working with Ohio Wesleyan University as students return to campus.

It is important to consider population by subdivision when making inferences from the cases by subdivision maps. The more heavily populated areas have more cases of COVID-19.

The Delaware General Health District is dedicated to responding to the COVID-19 pandemic in order to prevent disease in our community. The data collected is used to modify response efforts and get a better understanding of the impact of COVID-19 on our community.