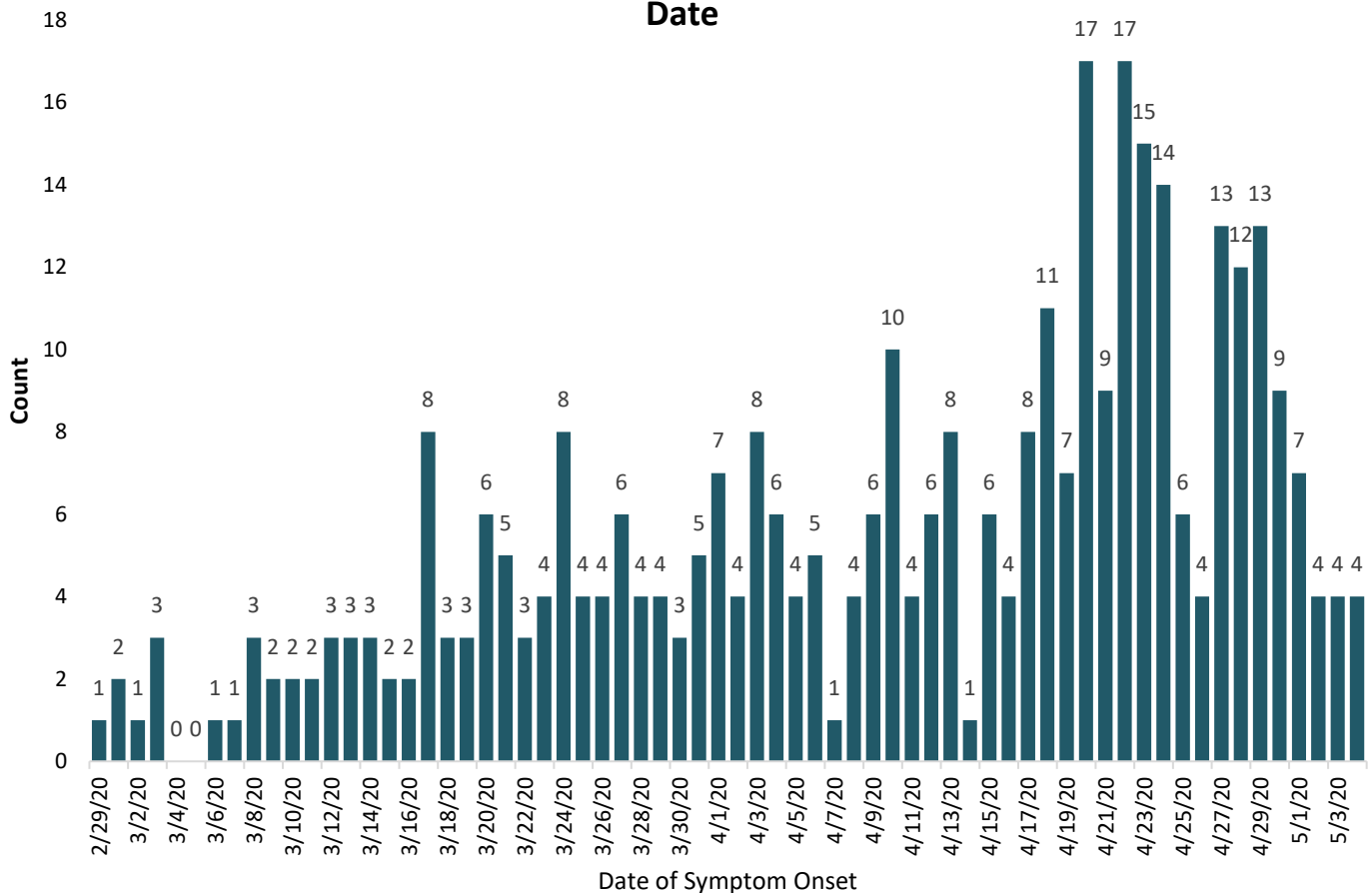


## Butler County General Health District COVID-19 Update (05/06/2020)

### Confirmed and Probable COVID-19 Cases Reported to Butler County\* Butler County Residents, 2020

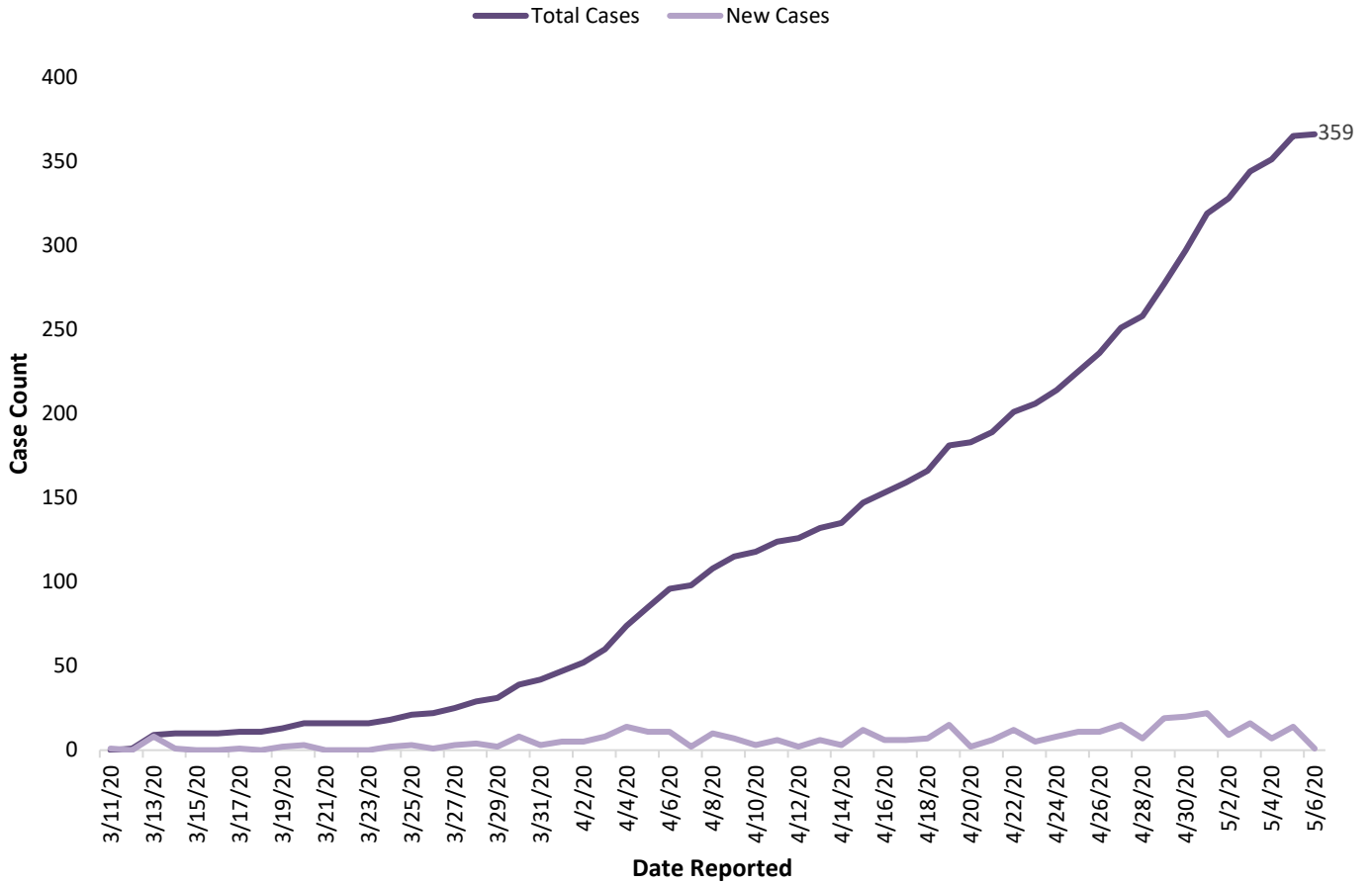
<b>Total # of Cases*:</b>	359*
<b>Total Number of Deaths:</b>	10
<b>First Case Reported:</b>	3/13/2020
<b>Last Case Reported (so far):</b>	5/6/2020
<b>Confirmed Cases:</b>	355
<b>Probable Cases:</b>	4
<b>Age Range:</b>	<1-101
<b>Median Age:</b>	50
<b>Mean Age:</b>	49.23
<b>Incidence Rate:</b>	93.7 per 100,000

**Figure 1. Total Cases Reported\* to Butler County by Symptom Onset Date**

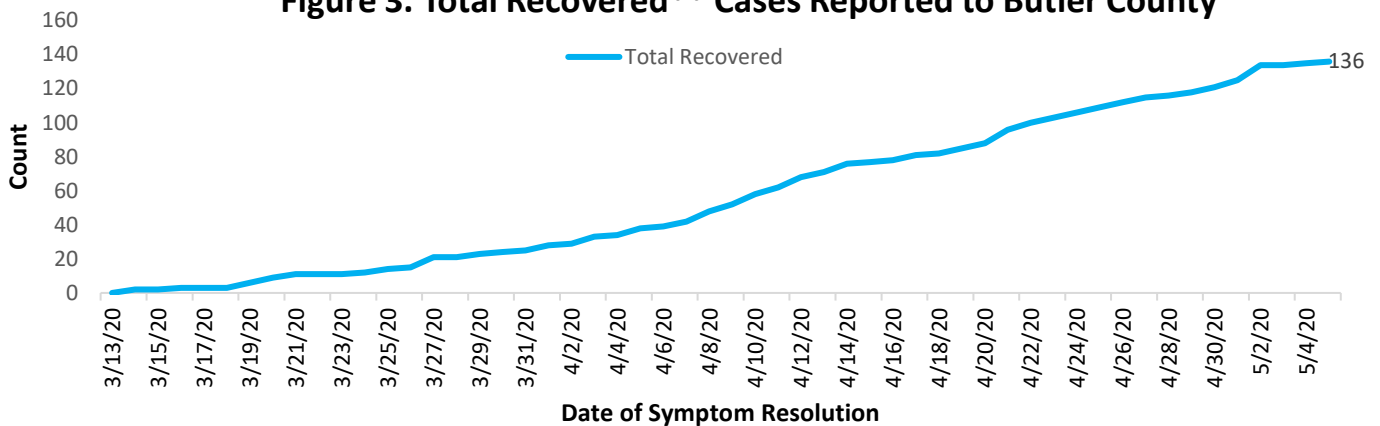


All figures show reported cases of COVID-19 in Butler County as of 0900 EDT 05/06/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and confirmed and probable case counts are likely to increase. \*This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed OR meet ODH probable case criteria AND reported to Public Health. \*Data is provisional – only confirmed COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 05/06/2020 at 0900 EDT.

**Figure 2. Cumulative Cases\* Reported to Butler County By Date Reported**



**Figure 3. Total Recovered\*\* Cases Reported to Butler County**



\*\*Recovery is based on the recommendations by the Centers for Disease Control and Prevention (CDC) which recommend the lifting of home isolation after a minimum of 7 days after the onset of symptoms and 72 hours with the resolution of fever without medication and the marked improvement of all symptoms. This should not be assumed to be the total amount of individuals in the county of have developed COVID-19 and recovered.

All figures show reported cases of COVID-19 in Butler County as of 0900 EDT 05/06/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and confirmed and probable case counts are likely to increase. \*This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed OR meet ODH probable case criteria AND reported to Public Health. \*Data is provisional – only confirmed COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 05/06/2020 at 0900 EDT.

# Demographics of COVID-19 Cases Reported to Butler County

Butler County Residents, 2020  
(as of 0900 EDT 05/06/2020)

Table 1: Total Reported* Cases by ZIP Code			
ZIP Code	Number of Cases	Rate per 100,000	% of Confirmed Cases
45014	83	189.0	23.1%
45011	81	116.3	22.6%
45044	49	92.8	13.6%
45069	48	97.8	13.4%
45013	27	51.3	7.5%
45042	21	79.4	4.8%
45015	16	132.9	4.5%
45056	14	51.8	3.9%
45050	5	58.5	1.4%
45067	5	36.0	1.4%
45246	3	-	0.9%
45241	3	-	0.9%
45053	2	58.5	0.6%
45003	1	-	0.3%
45005	1	-	0.3%
Butler County (inclusive)	359		100%

Zip-codes not calculated have most of their population outside of Butler County. Rate given for comparison by population and will be higher than the actual amount.

Table 2. Exposure Type					
Community	Healthcare Exposure	First Response	Household contact	Travel associated	Congregate setting
235	57	4	38	11	14

Table 3. Clusters in Butler County		
Cluster Associated Cases	Number of Clusters	Cases
81		22.5%
Household	20	51
Congregate setting	3	16
Workplace	3	14

Figure 4. Reported\* Cases of COVID-19 by Sex  
Butler County Residents, 2020

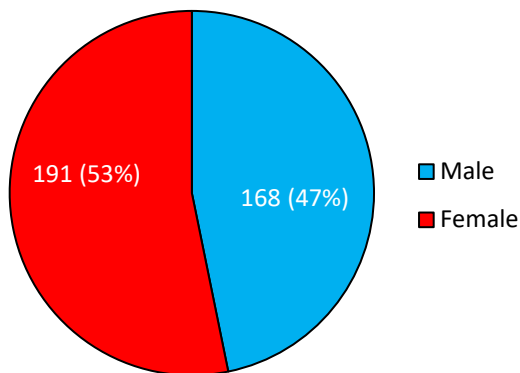
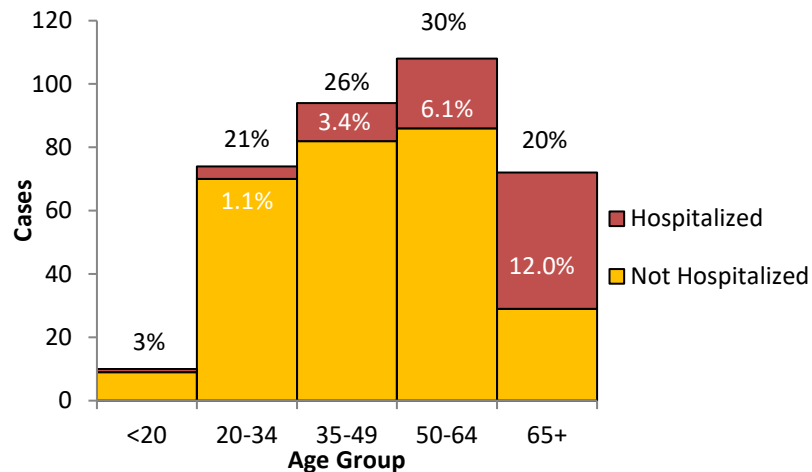
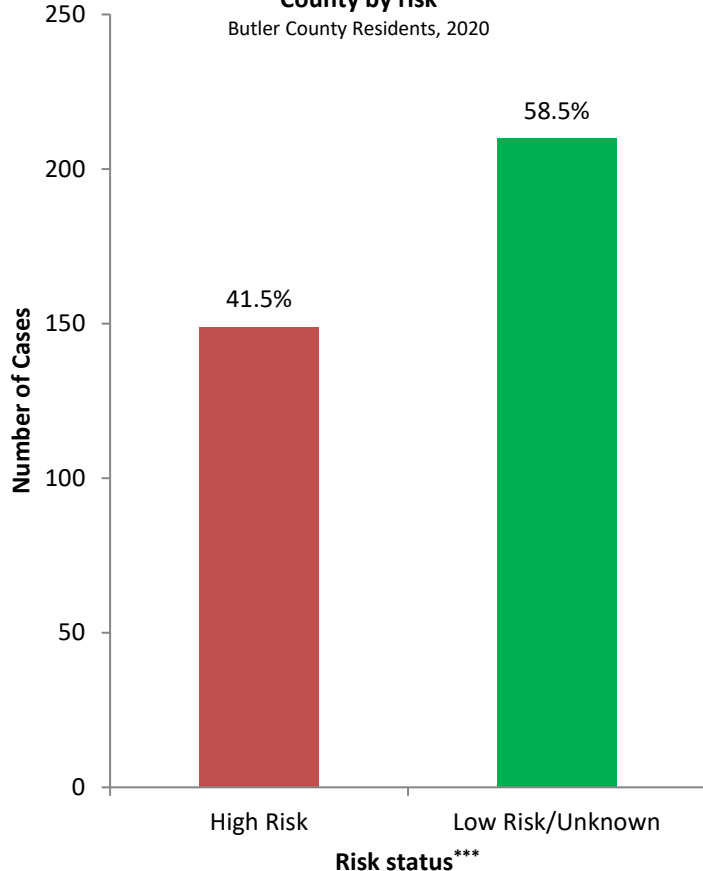


Figure 5. Reported\* Confirmed Cases by Age Group  
Butler County Residents, 2020



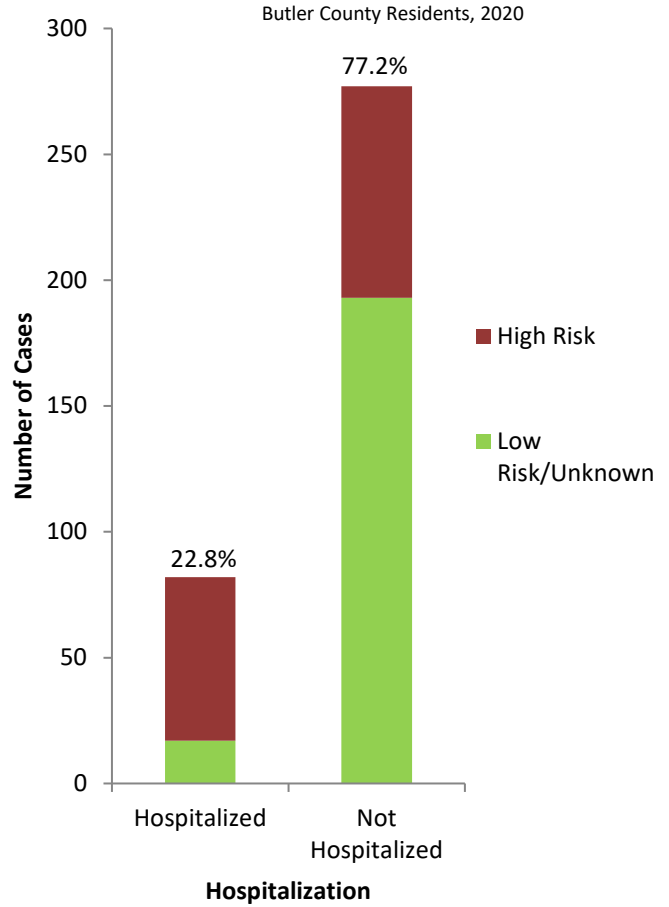
All figures show reported cases of COVID-19 in Butler County as of 0900 EDT 05/06/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and **confirmed and probable case counts are likely to increase.** \*This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed OR meet ODH probable case criteria AND reported to Public Health. \*Data is provisional – only confirmed COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 05/06/2020 at 0900 EDT.

**Figure 6. COVID-19 Cases Reported to Butler County by risk**

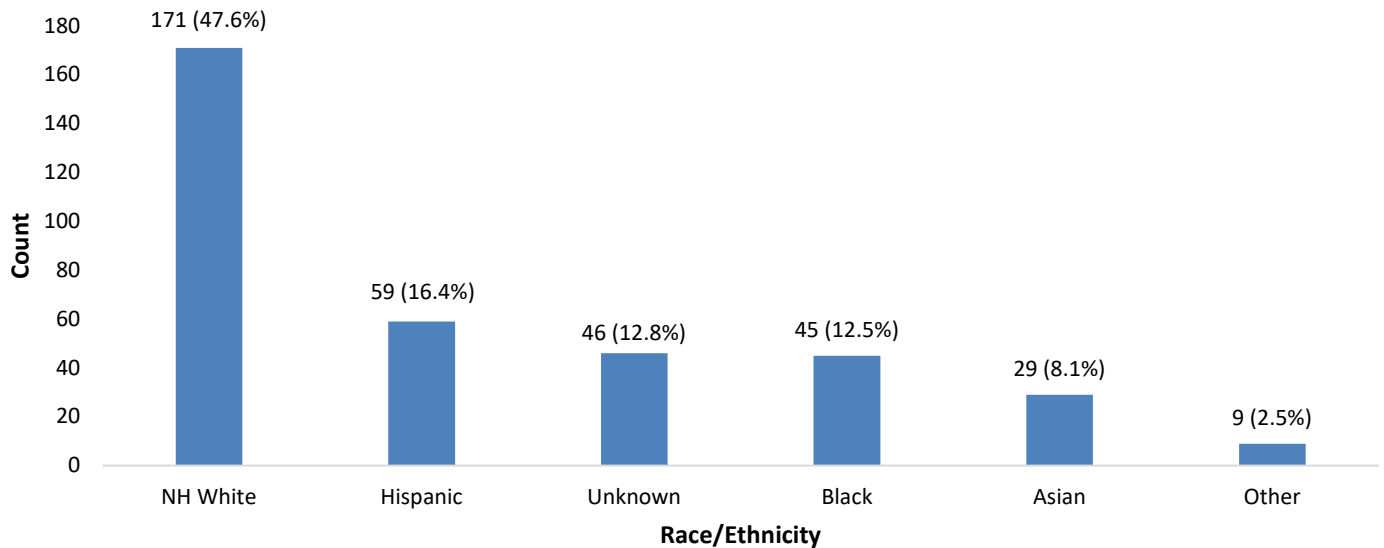


**Risk status\*\*\***  
**(Underlying Health Conditions or Older than 65)**  
 \*\*\*High risk status does not necessarily make one more susceptible to transmission, but does increase the likelihood of a more severe illness

**Figure 7. COVID-19 Cases Reported to Butler County by Hospitalization**



**Figure 8. Cases Reported to Butler County by Race/Ethnicity**



All figures show reported cases of COVID-19 in Butler County as of 0900 EDT 05/06/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and confirmed and probable case counts are likely to increase. \*This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed OR meet ODH probable case criteria AND reported to Public Health. \*Data is provisional – only confirmed COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 05/06/2020 at 0900 EDT.

# Clinical Statistics For Reported Butler County Cases

Butler County Residents, 2020

(as of 0900 EDT 05/06/2020)

Table 4. Laboratory Statistics				
	Overall	Private Laboratories	Hospital Laboratories	Public Laboratories
Confirmatory Tests	355	230	102	23
Range (in days)	<1-27	<1-27	<1-5	1-4
Median (in days)	2	2	1	1

Table 5. Hospitalization Statistics			
	N	Percentage of Hospitalized Cases	Percentage of all cases
Total Hospitalized	82	100%	22.8%
Cases with information	76	92.7%	21.2%
Currently Hospitalized	22	26.8%	6.1%
Admitted to Intensive Care Unit (ICU)	16	19.5%	4.5%
Required intubation	13	15.9%	3.6%
Range of Length of Stay (in days)	<1-35	-	-
Median Length of Stay (in days)	7	-	-

Table 6. Symptoms Reported		
	N	Percentage
Cases with Information	288	100%
Cough	220	76.3%
Fever	144	65.5%
Shortness of Breath	143	65.0%
Myalgia	147	51.0%
Chills	103	35.8%
Headache	120	41.7%
Runny Nose	78	27.1%
Sore Throat	64	22.2%
Nausea	57	19.8%
Diarrhea	48	16.7%
Abdominal Pain	27	9.4%
Asymptomatic	12	4.2%

Table 7. Recovery** Statistics		
	N	Percentage
Cases Recovered	144	40.1%
Cases with Information	136	37.9%
Range from Illness onset to recovery (in days)	7-51	-
Median time from illness onset to recovery (in days)	14	-

\*\*Recovery is based on the recommendations by the Centers for Disease Control and Prevention (CDC) which recommend the lifting of home isolation after a minimum of 7 days after the onset of symptoms **and** 72 hours with the resolution of fever without medication **and** the marked improvement of all symptoms. **This should not be assumed to be the total amount of individuals in the county of have developed COVID-19 and recovered.**

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## State of Ohio\*:

**Confirmed and Probable Cases: 21,576**

**Age Range: <1-106**

**Median Age: 51**

**Sex F:M Ratio: 44:55**

**Hospitalizations: 4,052**

**Deaths: 1,225**

A note about the statistics of COVID-19:

At this point we are seeing evidence of community spread of the virus throughout Butler County. Like all statistics, the surveillance epidemiology of COVID-19 must be taken in context and with the understanding of potential factors that could interfere with the presentation of disease. The zip-codes that are listed are those where the cases reside, and not necessarily where they work, socialize, worship, shop, etc. Not every community will have an equal risk. Some communities have more travel-associated cases or clusters of close peer-groups that make their statistics appear lopsided. Other communities have more true community spread though their absolute number may be lower. Some communities are tighter knit promoting transmission within the community, and some have large portions of commuters that could potentially be importing the virus. Testing policies by health networks to this point have not been homogenous. Some communities have greater access to hospitals that have less strict testing standards. So, it is important to use this tool for the community's situational awareness and not a layperson's risk assessment.

Something that has changed since my last update in this section has been the increase in testing capacity in our region. As more testing occurs we will begin to get a better picture of the true spread in the community. We will also get a better understanding of the disease as it presents itself. You will have noticed that the proportion of high risk and hospitalized cases has been come down since my last message. This is what we would expect. That being said, we will catch less asymptomatic cases because the symptomatic cases are more likely to be tested.

If you would like more information about how to protect your family, please go to the following websites:

The Butler County General Health District:

[http://health.bcoho.us/our\\_services/novel\\_coronavirus.php](http://health.bcoho.us/our_services/novel_coronavirus.php)

The Ohio Department of Health (ODH):

<https://coronavirus.ohio.gov/wps/portal/gov/COVID-19/home>

The Centers for Disease Control and Prevention (CDC):

<https://www.cdc.gov/coronavirus/2019-ncov/index.html>

Right now, the best defense that our community has against this virus is to remain calm and listen to the public health authorities that have been working tirelessly to protect us. We learn more about this disease every day, and every day that you make the hard sacrifices that we know you're making is another day that we come closer to ending the pandemic.

We're all in this together.

-Jordan Luttrell-Freeman, MPH  
Epidemiologist  
Butler County General Health District

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