

## Butler County General Health District COVID-19 Update (10/12/2020)

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

<b>Total # of Cases (10/12):</b>	7998*
<b>Permanent Butler County (10/12):</b>	5778
<b>Miami University (10/12):</b>	2220
<b>Confirmed Deaths (10/12):</b>	115
<b>First Case Reported:</b>	3/11/2020
<b>Last Case Reported (so far):</b>	10/12/2020
<b>Confirmed Cases:</b>	7754
<b>Probable Cases:</b>	244
<b>Age Range:</b>	<1-101
<b>Median Age:</b>	30
<b>Mean Age:</b>	37.0
<b>Incidence:</b>	2,087.5 per 100,000

Figure 1: Cases Reported to Butler County by Symptom Onset Date\*, 2020  
(Confirmed and Probable)

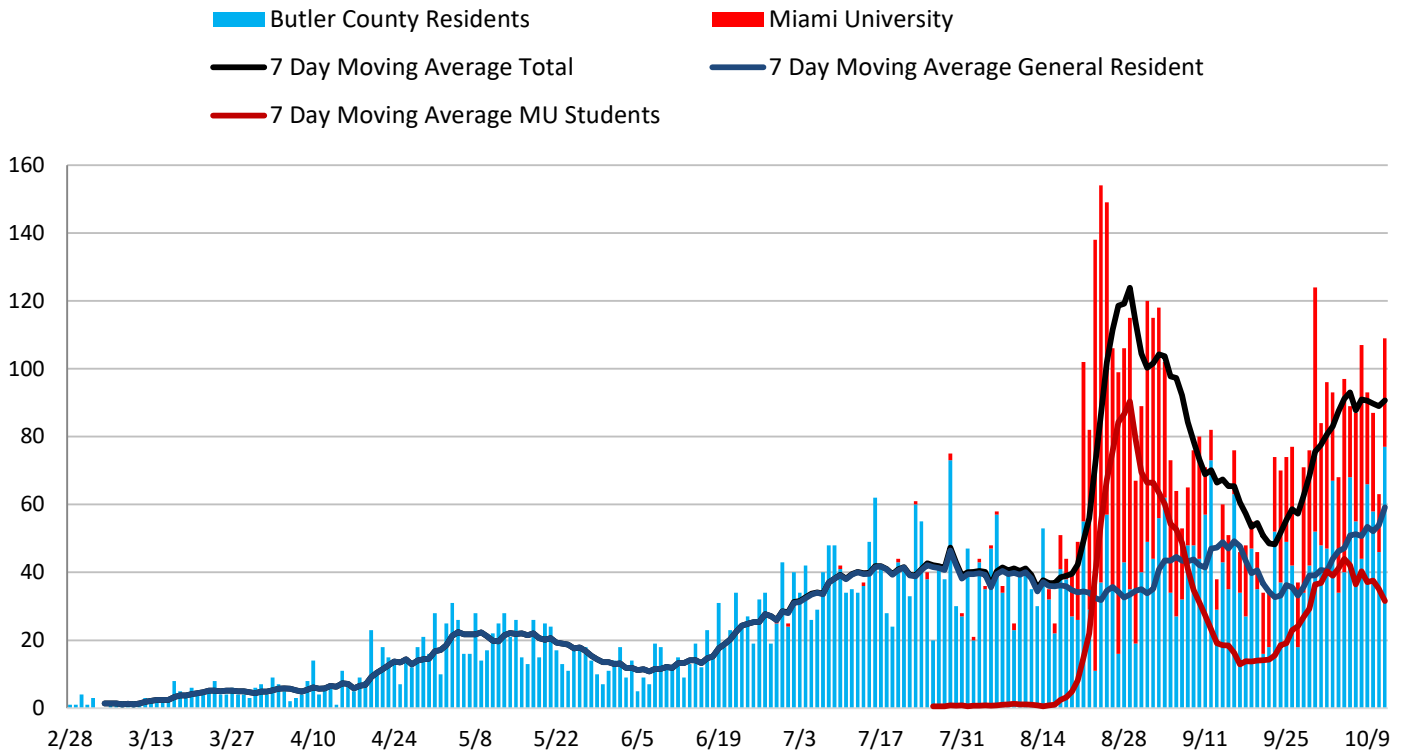


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person is only counted once regardless of how many tests they take.** All confirmed cases are confirmed via PCR test. Serology (antibody or antigen tests) are considered probable cases and only if they also show symptoms or have an exposure to a confirmed case. **Persons getting antibody tests to check immunity status only are NOT included in the totals of cases or deaths. PCR tests are highly reliable, and false positives are incredibly rare. Discrepancy with ODH reporting comes from the delay in transferring jurisdictions of MU students to Butler County.**

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 10/12/2020. 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 or probable 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 10/12/2020 at 1700 EDT.

Figure 2. Cumulative Cases Reported to Butler County by Date Reported\*, 2020  
(Confirmed and Probable)

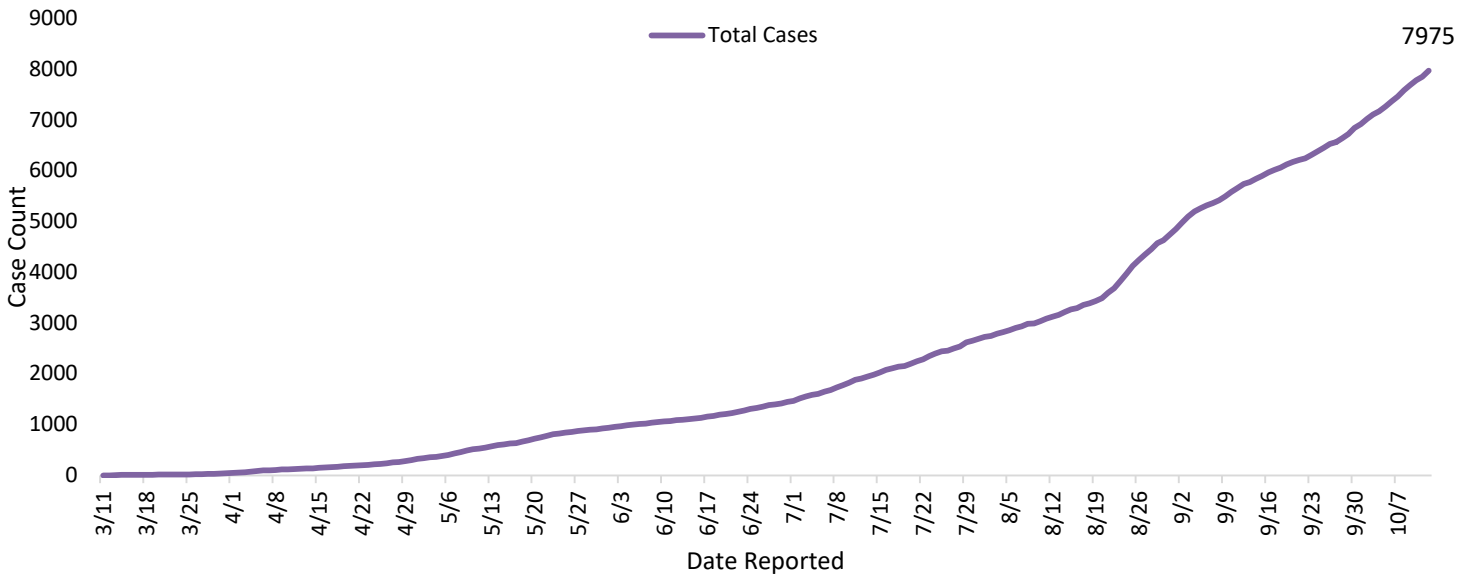
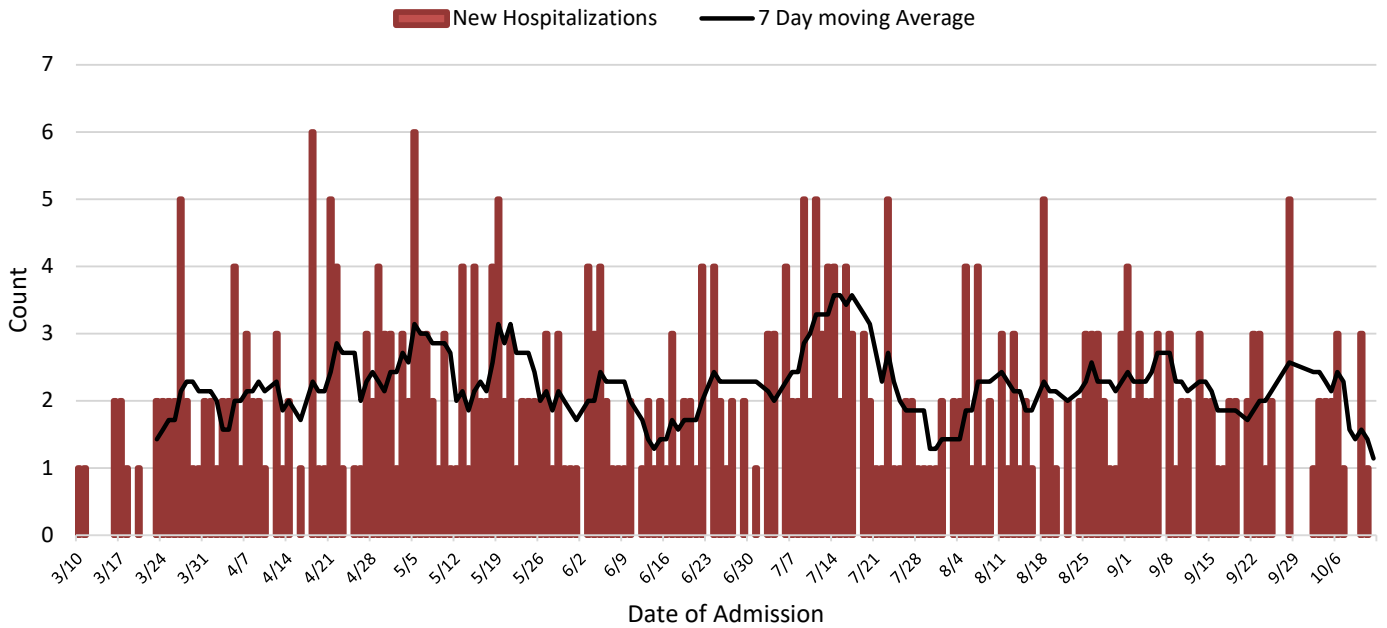


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020\*



Hospitalizations are stabilizing for Butler County residents. However, the 7 day average is steadily increasing. **Due to delays in reporting, and the time it takes for illness to become severe enough to require hospitalization, it is too early to tell whether this trend will continue. This is not a hospitalization bed/ICU usage analysis.** These are only Butler County residents in hospitals which may be outside of Butler County, and do not include the residents of other counties hospitalized in Butler County. There are 35 admissions for which the date of admission is not available. **No Miami Students have been hospitalized.**

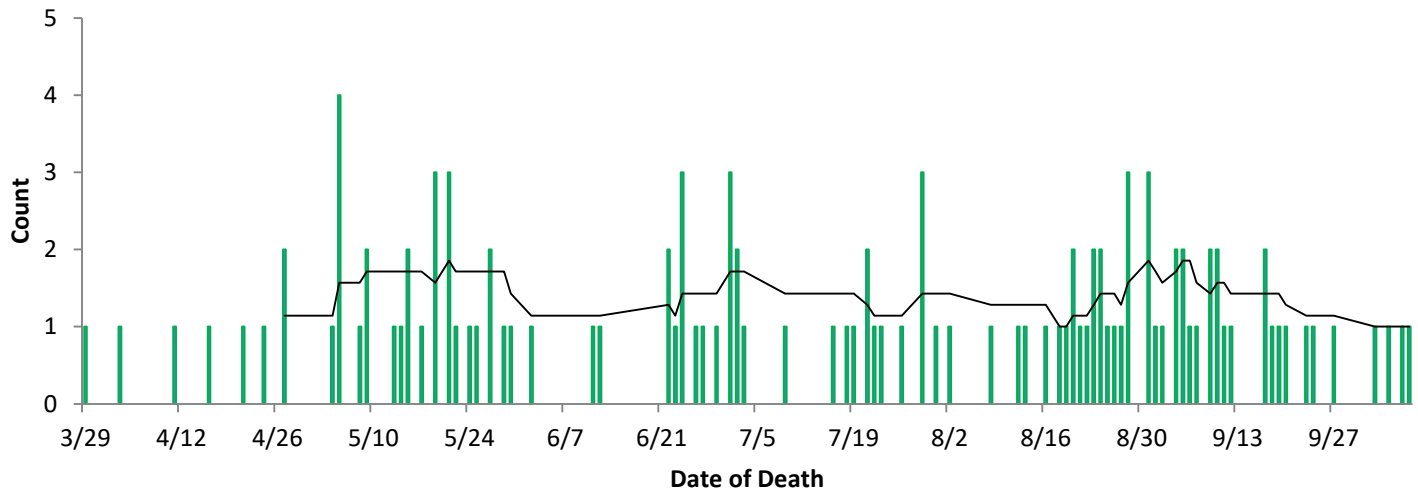
All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 10/12/2020. Due to delays in reporting, the numbers of confirmed and probable cases on Figure 1 are subject to change between reports and confirmed and probable case counts are likely to increase. \*This should not be assumed 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 or probable 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 10/12/2020 at 1700 EDT.

Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	115	1.5%
Age		
Range	30-101	
Median	77	
Mean	75.4	

\*\*Individuals who are high risk are those with underlying health conditions that could exacerbate a SARS-CoV-2 infection including those who are immunocompromised or immunosuppressed or individuals who are older than 65 years of age. High risk status does not imply higher likelihood of disease transmission, but a higher likelihood of a severe illness.

Figure 4. Confirmed COVID-19 Deaths by date of death, 2020\*



The deaths in Butler County have almost entirely been high risk individuals, either by age or by pre-existing health conditions that would lead to a more severe outcome. As is the case with the other numbers, most newly reported deaths are delayed reports from previous weeks back, and is therefore difficult to tell the accuracy or longevity of the trend. Case definition regarding deaths is complicated and may take many weeks to make a final decision regarding cause of death as well as reconciling jurisdiction. Therefore, there may be inconsistencies in reporting between ODH and the three Butler County jurisdictions. For this reason we only include those deaths that have been confirmed and reviewed in our count while the state also includes probable deaths. **Deaths are included in this count only if COVID-19 is listed as immediate or directly underlying cause of death on the death certificate. No Miami University students have died due to COVID-19.**

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 10/12/2020. 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 or probable 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 10/12/2020 at 1700 EDT.

Table 2: Total Reported* Cases by ZIP Code				
ZIP Code	Number of Cases	Change from previous week	Rate per 100,000	% of Confirmed Cases
Miami University Student Body	2,220	↑ 280 (14.4%) From 1940	17,076.9	27.8%
45011	1,046	↑ 90 (9.4%) from 956	1,501.2	13.1%
45014	953	↑ 57 (6.4%) from 896	2,170.0	11.9%
45044	862	↑ 68 (8.6%) from 794	1,631.9	10.8%
45013	722	↑ 71 (10.9%) from 651	1,372.3	9.0%
45069	653	↑ 55 (9.2%) from 598	1,331.0	8.2%
45042	347	↑ 34 (10.9%) from 313	1,311.9	4.3%
45015	185	↑ 17 (10.1%) from 168	1,536.8	2.3%
45067	208	↑ 31 (17.5%) from 177	1,496.6	2.6%
45056**	162	↑ 7(4.5%) from 155	1,154.0	2.0%
45050	147	↑ 13 (8.8%) from 134	1,719.7	1.8%
45241	94	↑ 12 (12.8%) from 82	-	1.2%
45005	39	↑ 5 (14.7%) from 34	-	0.5%
45246	23	No Change from 23	-	0.3%
45053	24	↑ 3 (14.3%) from 21	701.8	0.3%
45064	14	↑ 1 (7.6%) from 13	-	0.2%
45062	7	No Change from 7	-	0.1%
45327	5	-	-	0.1%
Cases lacking zip code information or from zip codes with <5 cases	287	-	-	3.6%
<b>Butler County (inclusive)</b>	<b>7998</b>	<b>↑ 764 (10.6%) from 7234</b>	<b>2,087.5</b>	<b>100%</b>

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. Zip-codes with fewer than 5 cases have been removed for privacy concerns.

\*\*Exclusive of verified Miami University Students living in Oxford, OH 45056. So this zip-code may decrease as students are identified.

Additionally, an astute reader pointed out that the rate for the 45056 area code has been incorrect since we started making distinctions between Miami students and the general residents of Butler County. Prior to the start of the school year (August) we had been using for 45056, and will continue to do so for the rest of the zip-codes, the official US Census projections of population. This projection includes college students in the estimates. Therefore, the new rate is calculated after removing the estimated college-student population from the estimated US Census projection for the zip-code. We sincerely apologize for the confusion.

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 10/12/2020. 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 or probable 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 10/12/2020 at 1700 EDT.

**Table 3. New Reports by MMWR Week, 2020**

MMWR Week	End of Week	New Cases Reported (by date of report)	New Hospitalizations (by date of report)	New Confirmed Deaths (by date of death)
11	3/14	10	1	0
12	3/21	6	3	0
13	3/28	15	7	0
14	4/4	45	16	2
15	4/11	51	19	1
16	4/18	44	9	1
17	4/25	58	21	2
18	5/2	109	16	2
19	5/9	151	19	8
20	5/16	139	16	4
21	5/23	183	24	8
22	5/30	100	12	6
23	6/6	107	14	1
24	6/13	80	12	2
25	6/20	115	13	0
26	6/27	174	18	8
27	7/4	205	10	7
28	7/11	293	21	1
29	7/18	258	22	2
30	7/25	302	13	5
31	8/1	286	10	5
32	8/8	258	16	2
33	8/15	286	13	2
34	8/22	412	14	7
35	8/29	888	24	10
36	9/5	690	12	9
37	9/12	478	20	8
38	9/19	386	13	4
39	9/26	403	11	3
40	10/3	579	9	2
41	10/10	675	10	3
42	10/17	189	4	0

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 10/12/2020. 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 or probable 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 10/12/2020 at 1700 EDT.