

## Butler County General Health District COVID-19 Update (10/05/2020)

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

<b>Total # of Cases (10/05):</b>	7234*
<b>Permanent Butler County (10/05):</b>	<b>5294</b>
<b>Miami University (10/05):</b>	<b>1940</b>
<b>Confirmed Deaths (10/05):</b>	110
<b>First Case Reported:</b>	3/11/2020
<b>Last Case Reported (so far):</b>	10/05/2020
<b>Confirmed Cases:</b>	7104
<b>Probable Cases:</b>	130
<b>Age Range:</b>	<1-101
<b>Median Age:</b>	31
<b>Mean Age:</b>	30.3
<b>Incidence:</b>	1,891.8 per 100,000

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

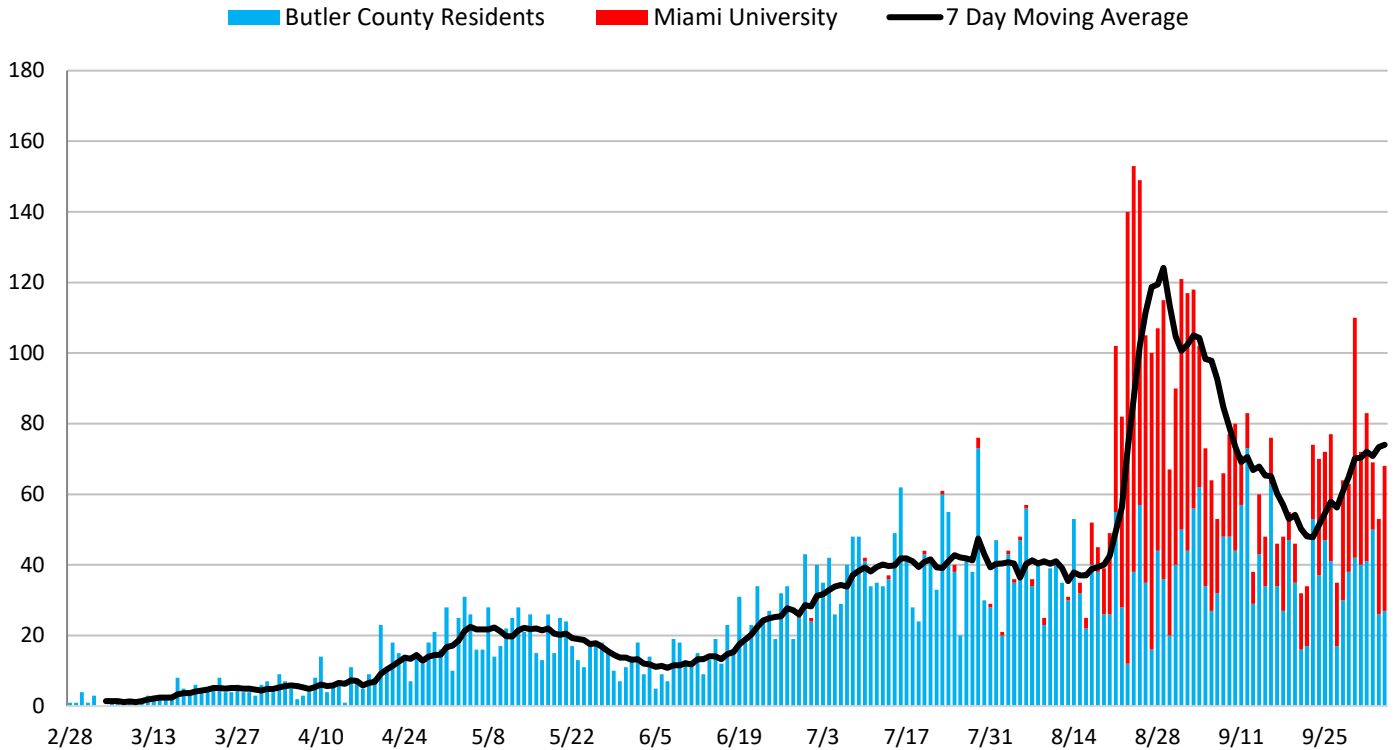


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 10/05/2020. 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.

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

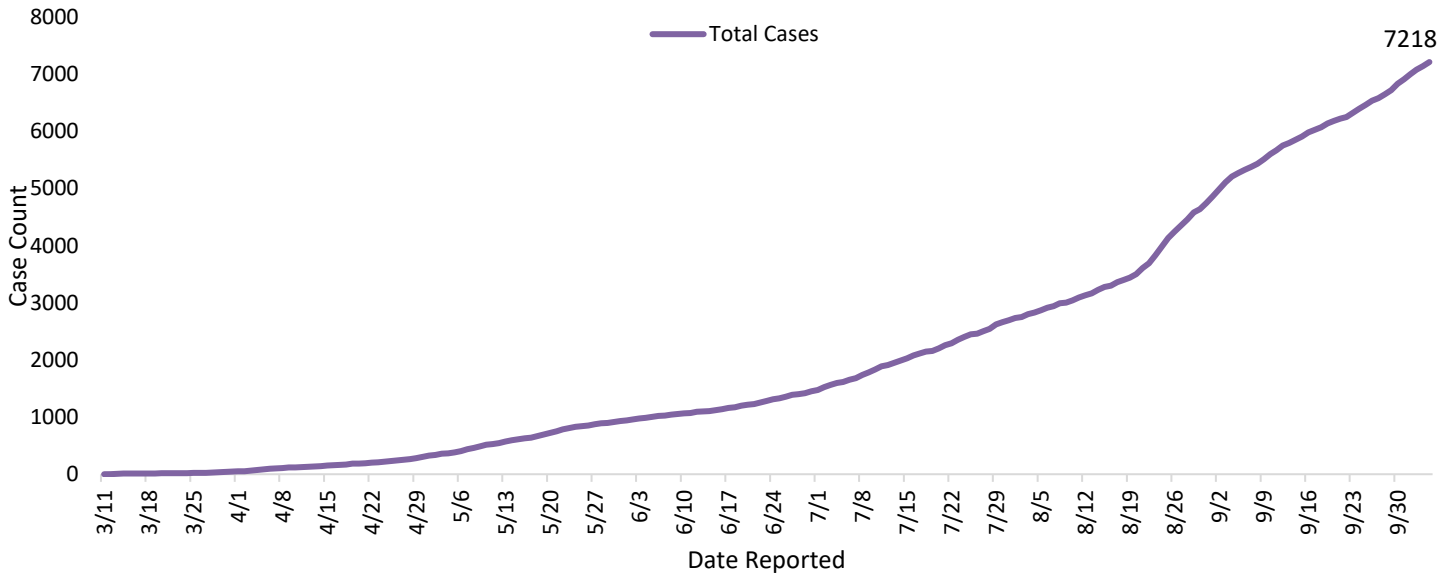
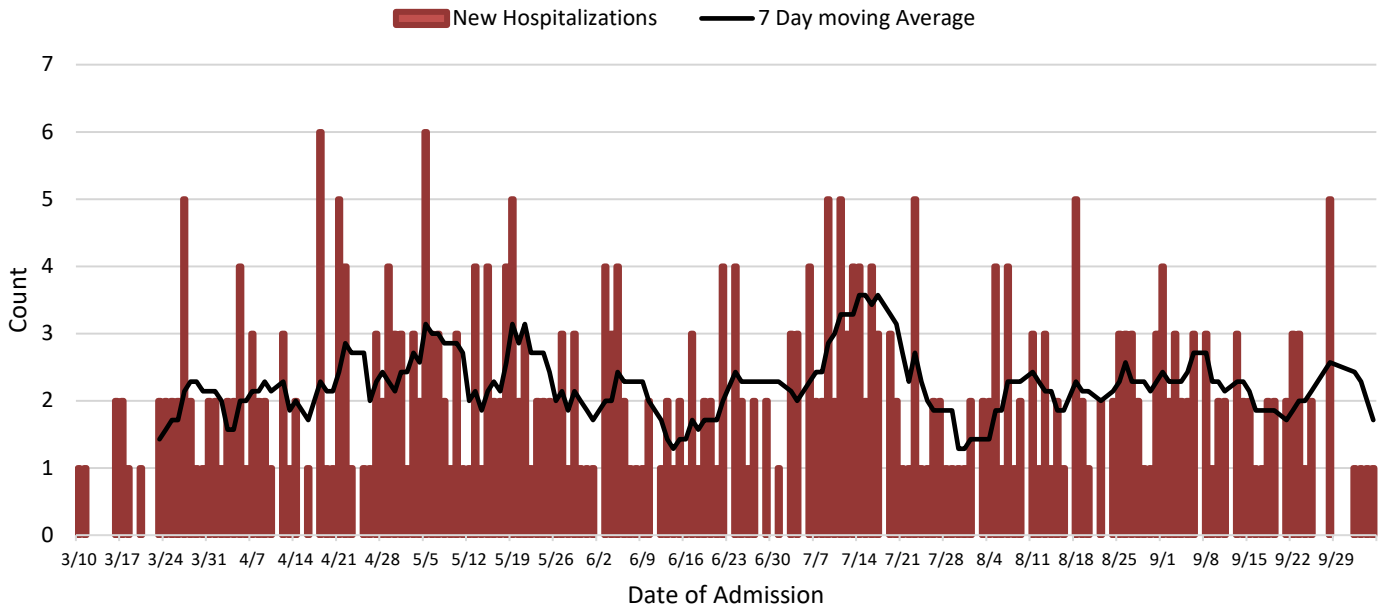


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020\*



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.**

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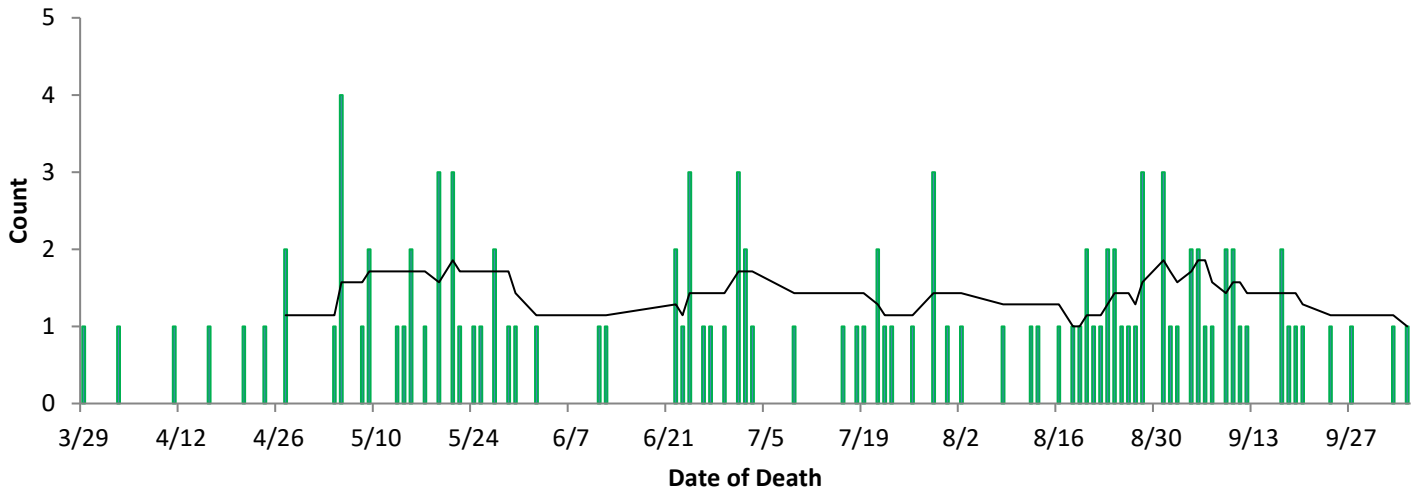
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**Table 1. Death Statistics, 2020**

	N	%
Confirmed Deaths	112	1.6%
<b>Age</b>		
Range	30-101	
Median	77	
Mean	75.3	

\*\*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.**

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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	1940	↑ 280 (16.9%) From 1660	14,923.1	26.8%
45011	956	↑ 55 (6.1%) from 901	1,372.0	13.2%
45014	896	↑ 49 (5.8%) from 847	2,040.2	12.4%
45044	794	↑ 41 (5.4%) from 753	1,503.2	11.0%
45013	651	↑ 46 (7.6%) from 605	1,237.3	9.0%
45069	598	↑ 31 (5.5%) from 567	1,218.9	8.3%
45042	313	↑ 20 (6.8%) from 293	1,183.3	4.3%
45015	168	↑ 6 (3.7%) from 162	1,395.6	2.3%
45067	177	↑ 6 (3.5%) from 171	1,273.6	2.4%
45056**	155	↓ 10(6.4%) from 165	573.3	2.1%
45050	134	↑ 6 (4.7%) from 128	1,567.6	1.9%
45241	82	↑ 10 (13.9%) from 72	-	1.1%
45005	34	↑ 1 (3.0%) from 33	-	0.5%
45246	23	No Change from 23	-	0.3%
45053	21	↑ 1 (5%) from 20	614.0	0.3%
45064	13	↑ 1 (8.3%) from 12	-	0.2%
45062	7	No Change from 7	-	0.1%
Cases lacking zip code information or from zip codes with <5 cases	272	-	-	3.8%
<b>Butler County (inclusive)</b>	<b>7234</b>	<b>↑ 554 (8.3%) from 6680</b>	<b>1,891.8</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. May decrease as students are identified.

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**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	101	12	6
23	6/6	107	14	1
24	6/13	80	12	2
25	6/20	116	13	0
26	6/27	174	18	8
27	7/4	207	10	7
28	7/11	292	21	1
29	7/18	258	22	2
30	7/25	302	13	5
31	8/1	288	10	5
32	8/8	258	16	2
33	8/15	287	13	2
34	8/22	414	14	7
35	8/29	888	24	10
36	9/5	694	12	9
37	9/12	482	20	8
38	9/19	384	13	4
39	9/26	401	11	2
40	10/3	541	7	2
41	10/10	134	2	1

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