

Butler County General Health District COVID-19 Update (09/28/2020)

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

Total # of Cases (9/28):	6680*
Permanent Butler County (9/28):	5020
Miami University (9/28):	1660
Confirmed Deaths (09/28):	110
First Case Reported:	3/11/2020
Last Case Reported (so far):	9/28/2020
Confirmed Cases:	6495
Probable Cases:	185
Age Range:	<1-101
Median Age:	31
Mean Age:	37.6
Incidence:	1,692.1 per 100,000

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

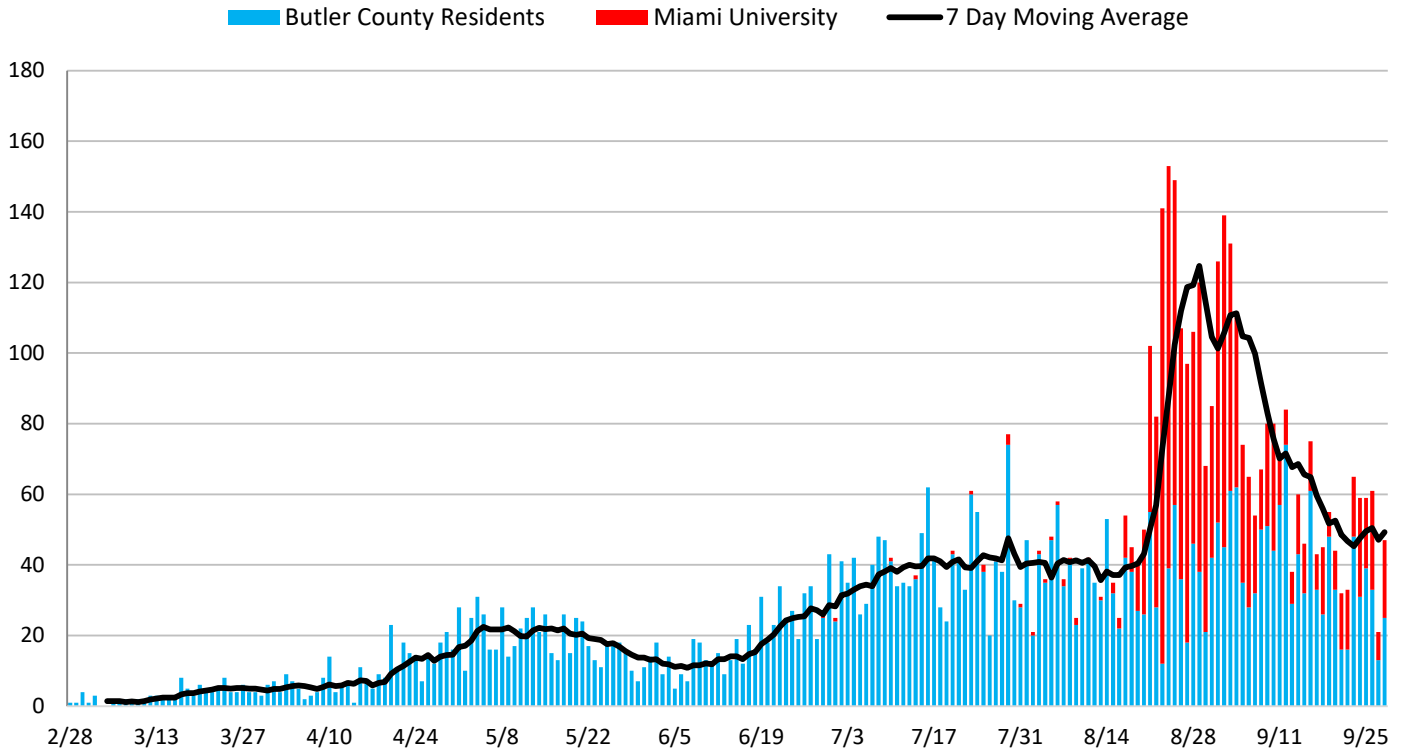


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 09/28/2020. 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)

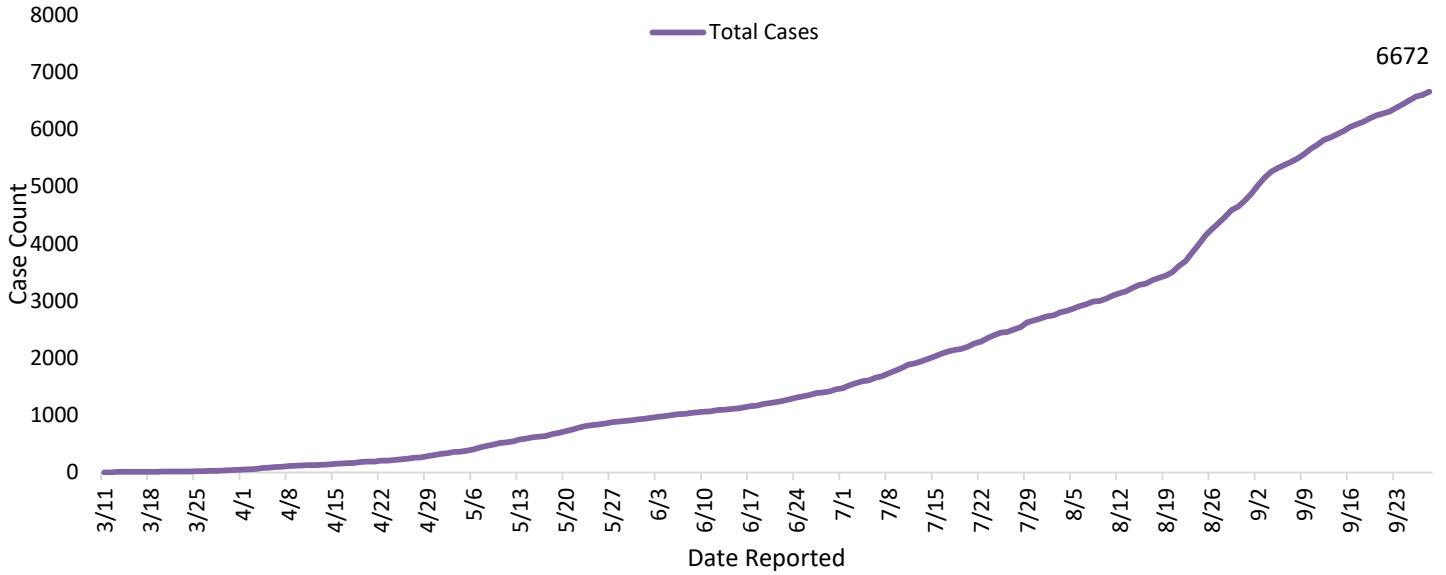
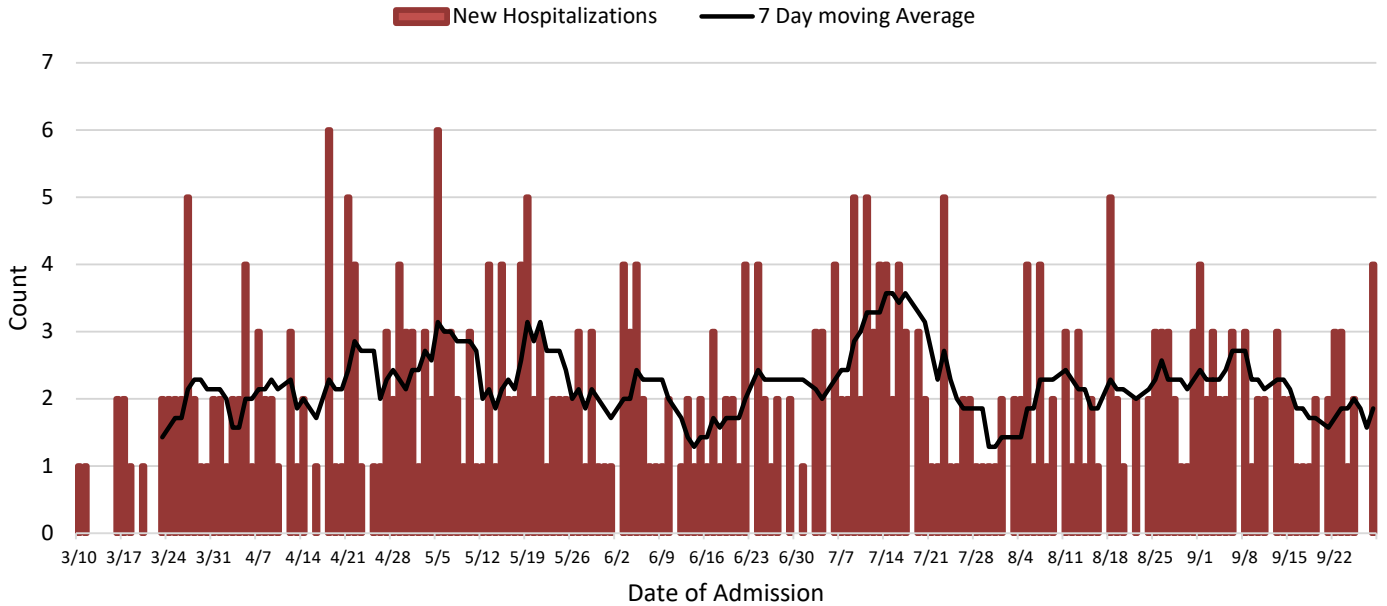


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020*



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 25 admissions for which the date of admission is not available. **No Miami Students have been hospitalized.**

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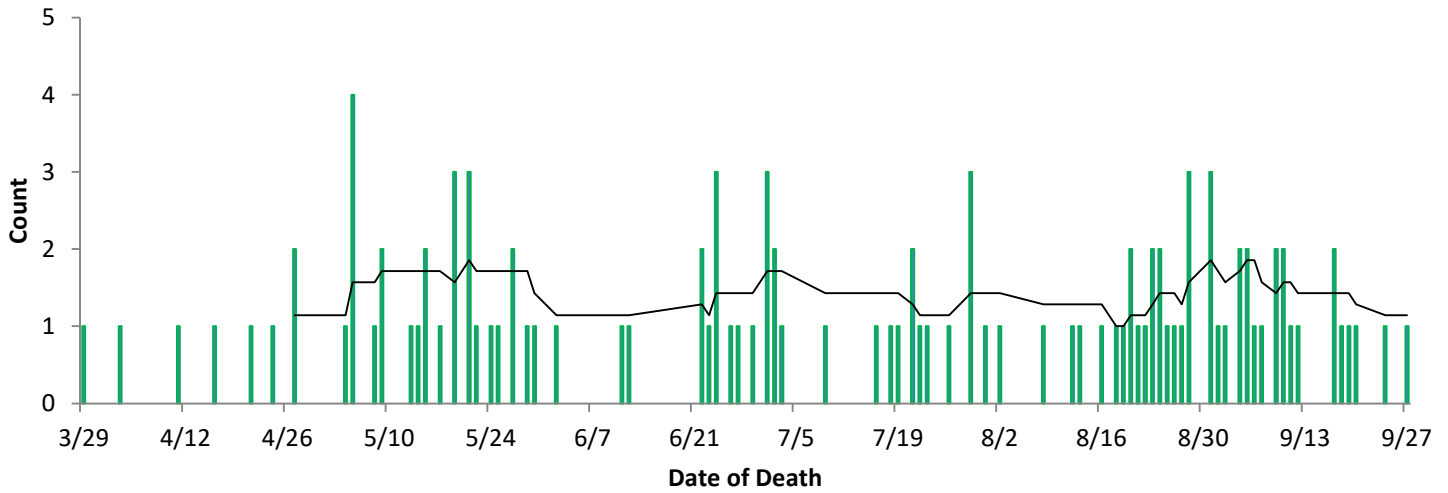
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Table 1. Death Statistics, 2020

	N	%
Confirmed Deaths	110	1.6%
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. The trend of deaths has mostly been consistent through July and August. 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	1660	-	12,769.2	24.9%
45011	901	↑ 59 (7.0%) from 842	1,293.1	12.7%
45014	847	↑ 26 (4.6%) from 821	1,928.6	11.3%
45044	753	↑ 16 (2.2%) from 737	1,425.5	9.1%
45013	605	↑ 45 (8.0%) from 560	1,149.9	8.5%
45069	567	↑ 27 (5.0%) from 540	1,155.7	4.4%
45042	293	↑ 16 (5.8%) from 277	1,107.7	2.6%
45015	162	↑ 5 (3.1%) from 157	1,345.7	2.4%
45067	171	↑ 15 (9.6%) from 156	1,230.4	2.6%
45056**	165	↑ 12 (7.8%) from 153	610.3	2.5%
45050	128	↑ 5 (4.4%) from 118	1,497.4	1.9%
45241	72	↑ 2 (2.9%) from 70	-	1.1%
45005	33	↑ 3 (10%) from 30	-	0.5%
45246	23	No Change from 23	-	0.3%
45053	20	↑ 3 (20%) from 18	584.8	0.3%
45064	12	↑ 1 (9%) from 11	-	0.2%
45062	7	No Change from 7	-	0.1%
Cases lacking zip code information or from zip codes with <5 cases	261	-	-	3.9%
Butler County (inclusive)	6680	Not Calculated due to new Reporting Method	1,692.1	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.
 Zip-codes with fewer than 5 cases have been removed for privacy concerns.

**Exclusive of verified Miami University Students living in Oxford, OH 45056.

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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	259	16	2
33	8/15	289	13	2
34	8/22	417	14	7
35	8/29	894	23	10
36	9/5	738	11	9
37	9/12	491	17	8
38	9/19	383	11	4
39	9/26	376	11	2
40	10/3	89	3	1

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