

## Butler County General Health District COVID-19 Update (11/28/2020)

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

#### Butler County Residents, 2020

Total # of Cases (11/28):	17,039 *
Butler County Residents (11/28):	14,389
Miami University (11/28):	2,650
Confirmed Deaths (11/28):	158
First Case Reported:	3/11/2020
Last Case Reported (so far):	11/28/2020
Confirmed Cases:	16,742
Probable Cases:	297
Age Range:	<1-101
Median Age:	37
Mean Age:	39.8
Incidence:	4446.2 per 100,000

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

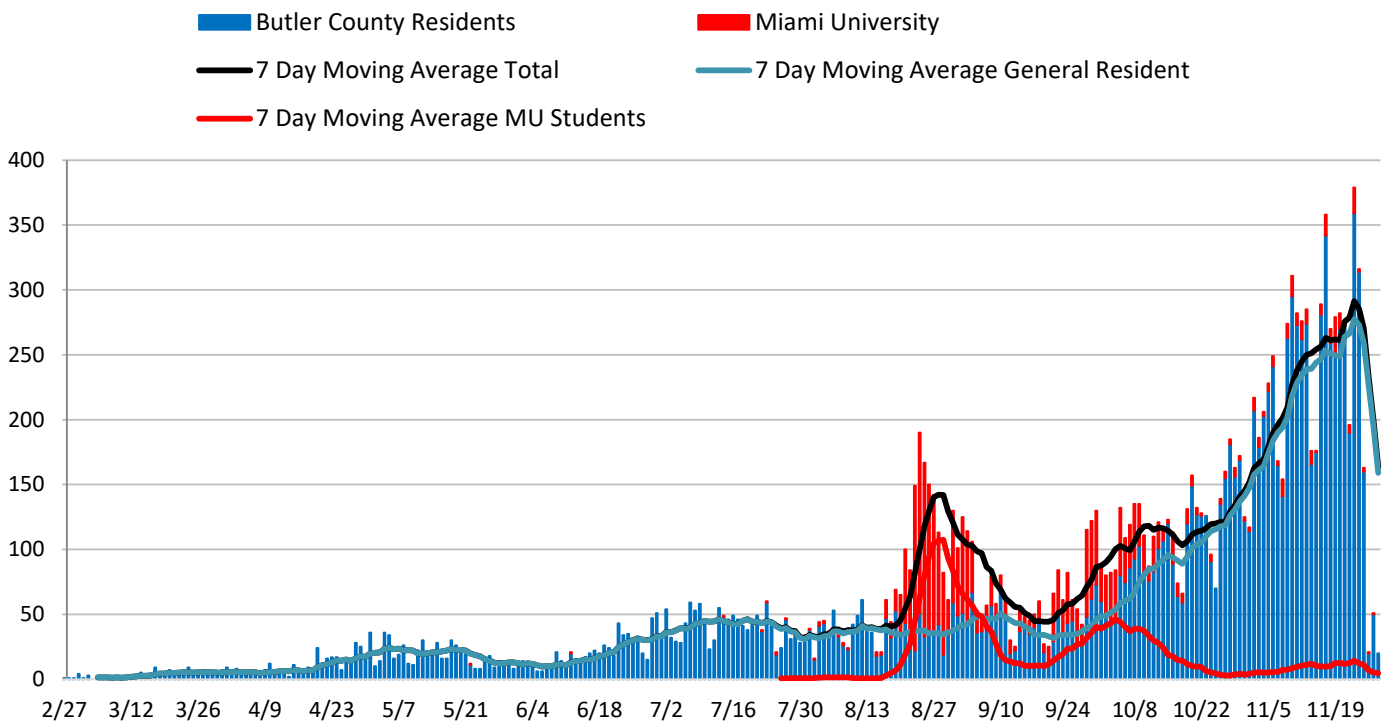


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 11/28/2020. 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)

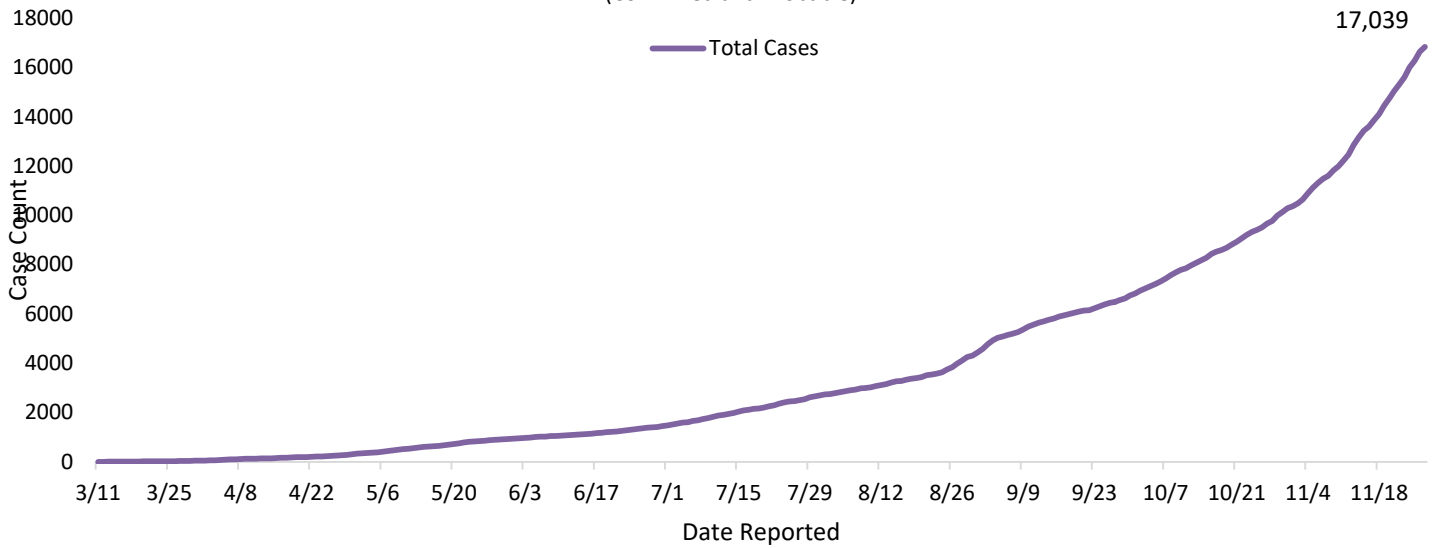
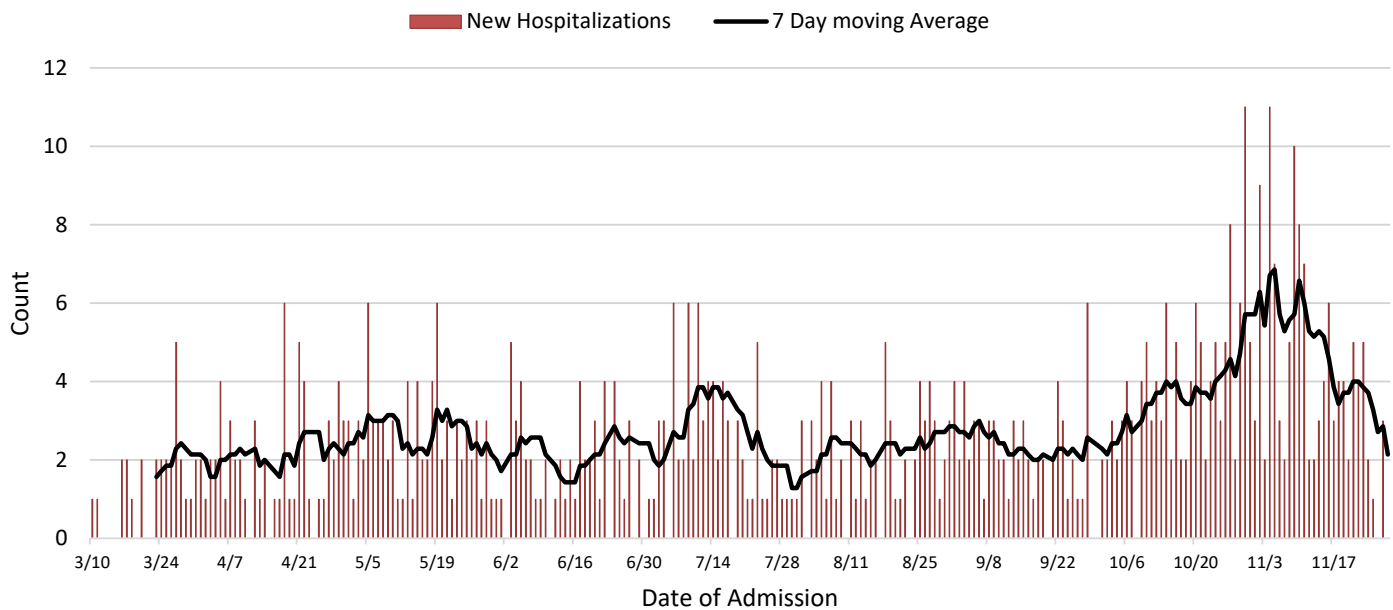


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020\*



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 52 cases where the date of admission is unknown. **No Miami Students have been hospitalized.**

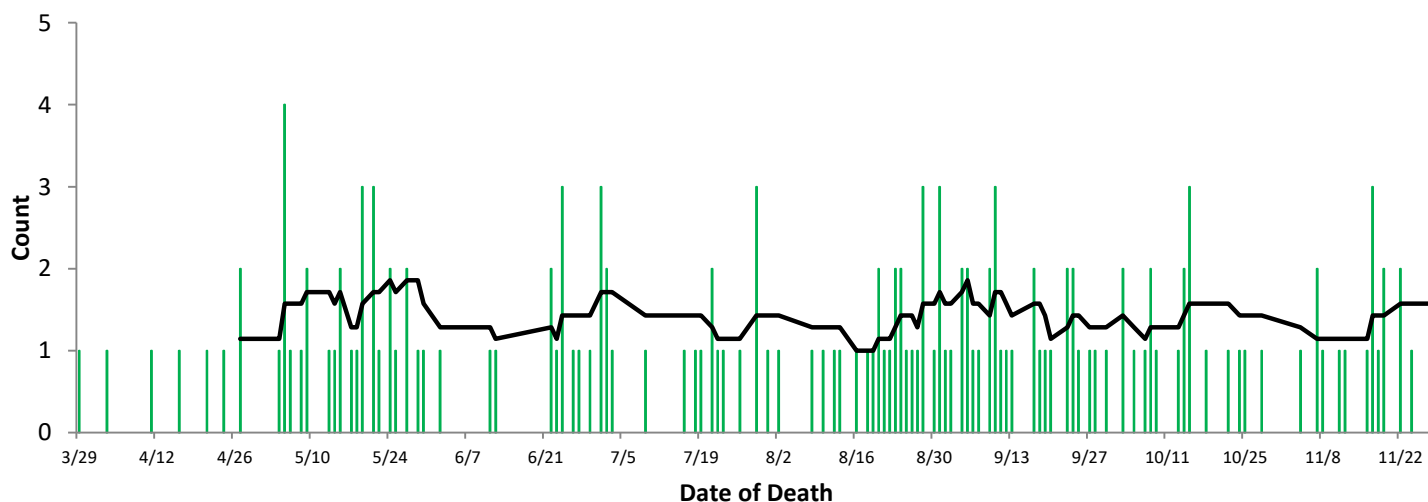
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Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	158	0.93 %
<b>Age</b>		
	N	
Range	30-101	
Median	79	
Mean	76.8	
<b>Race</b>		
	N	%
NH White	128	81.1%
NH Black	17	10.7%
Asian	4	2.5%
Hispanic	2	1.3%
Unknown	7	4.4%
<b>Sex</b>		
	N	%
Male	76	
Female	82	
<b>High Risk**</b>		
High Risk**	151	95%
Resides in Long-Term Care	63	39.6%

\*\*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**

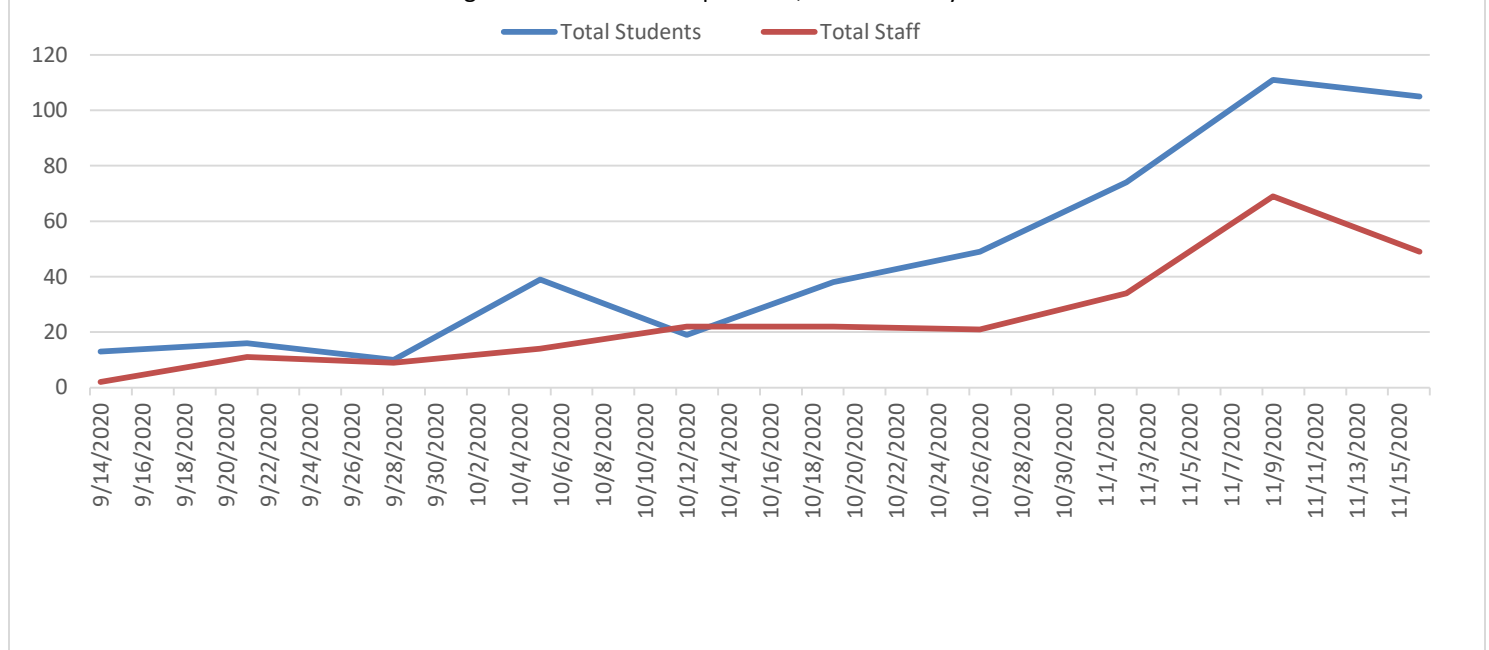
ZIP Code	Number of Cases	Change from previous week	Rate per 10,000	% of Confirmed Cases	Total deaths
Miami University Students	2650	↑38 (1.3%) From 2,612	1,879.2	22.4%	-
45011	2608	↑432 (19.9%) from 2,176	374.3	13.8%	17
45014	2129	↑ 241(12.8%) from 1,888	484.8	12.6%	37
45044	2035	↑ 245 (13.7%) from 1,790	385.3	12.0%	31
45013	1968	↑311 (18.8%) from 1,657	374.1	10.1%	35
45069	1800	↑256 (16.6%) from 1,544	366.9	9.4%	8
45042	1081	↑ 175 (19.3%) from 906	408.7	5.7%	5
45067	530	↑82 (18.3%) from 448	381.3	3.1%	6
45015	405	↑44 ( 12.2%) from 361	336.4	2.4%	-
45050	412	↑ 66(19.1%) from 346	482.0	2.1%	5
45056**	386	↑115 (42.2%) from 271	275.0	2.1%	9
45241	234	↑ 32 (15.8%) from 202		1.3%	2
45005	90	↑ 13 (16.9%) from 77		0.5%	1
45053	106	↑24 (29.3%) from 82	309.9	0.5%	-
45246	35	↑ 3 (9.4%) from 32		0.2%	-
45064	48	↑11 (29.7%) from 37		0.2%	-
45062	30	↑ 6 (25%) from 24		0.1%	-
Cases lacking zip code information or from zip codes with <5 cases	492	-	-	2.5%	1
Butler County (inclusive)	17,039	↑ 2,165 (14.52%) from 14,874	444.6	100%	158

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.

**Due to increasing cases, rate measurement changed to cases per 10,000 whereas it had previously been cases per 100,000**

**Figure 5. Known COVID positives, Butler County Schools**



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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	11	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	116	13	0
26	6/27	174	18	8
27	7/4	205	10	7
28	7/11	292	21	1
29	7/18	261	22	2
30	7/25	299	13	5
31	8/1	287	10	5
32	8/8	254	16	2
33	8/15	277	13	2
34	8/22	284	14	8
35	8/29	707	24	10
36	9/5	838	12	10
37	9/12	560	19	9
38	9/19	403	15	5
39	9/26	400	13	6
40	10/3	586	14	5
41	10/10	744	21	5
42	10/17	751	25	3
43	10/24	806	28	3
44	10/31	949	40	2
45	11/7	1,197	37	3
46	11/14	1,674	37	3
47	11/21	1,889	28	7
48	11/28	1,984	15	4

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