

Butler County General Health District COVID-19 Update (11/21/2020) Confirmed and Probable COVID-19 Cases Reported to Butler County* Butler County Residents, 2020

Total # of Cases (11/21):	14,874*
Butler County Residents (11/21):	12,262
Miami University (11/21):	2,612
Confirmed Deaths (11/21):	154
First Case Reported:	3/11/2020
Last Case Reported (so far):	11/21/2020
Confirmed Cases:	14,625
Probable Cases:	249
Age Range:	<1-101
Median Age:	36
Mean Age:	40
Incidence:	3,888.5 per 100,000
Period Prevalence:	3.9% of the Butler County population

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

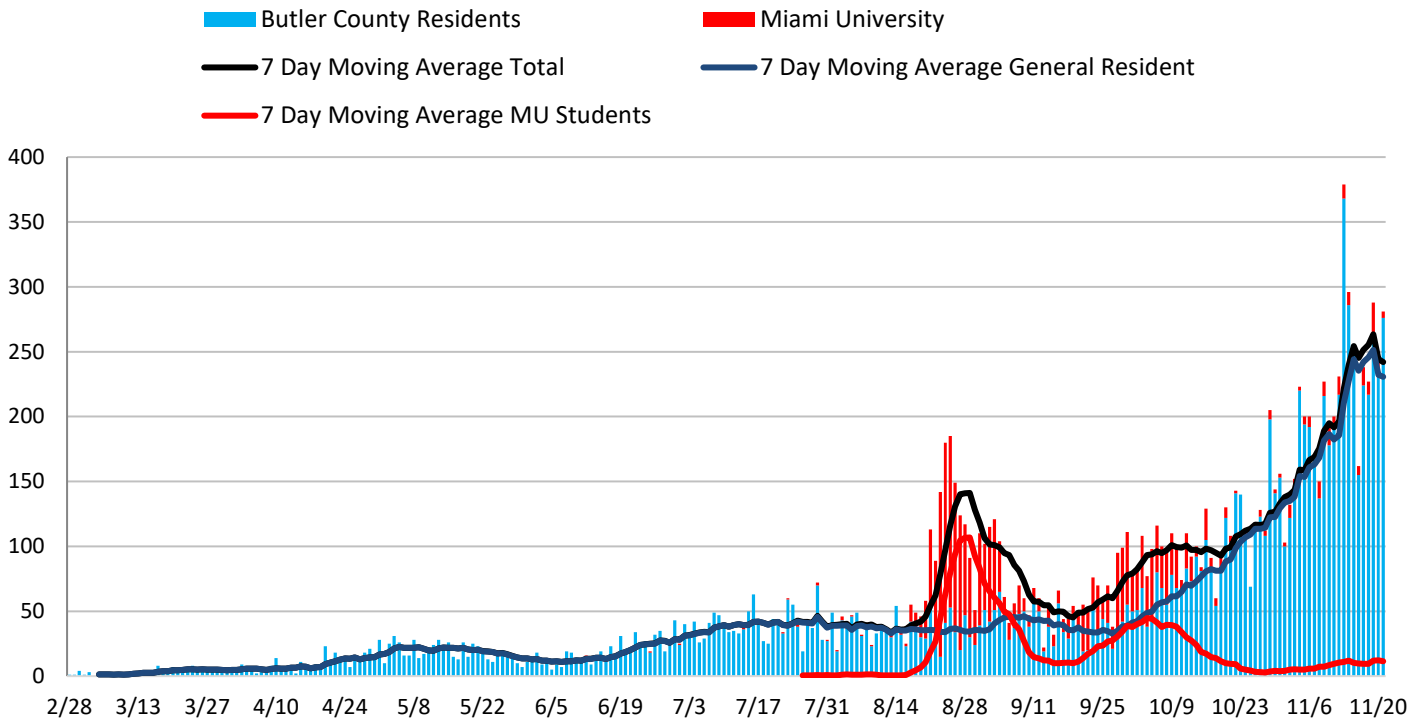


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 11/21/2020. 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)

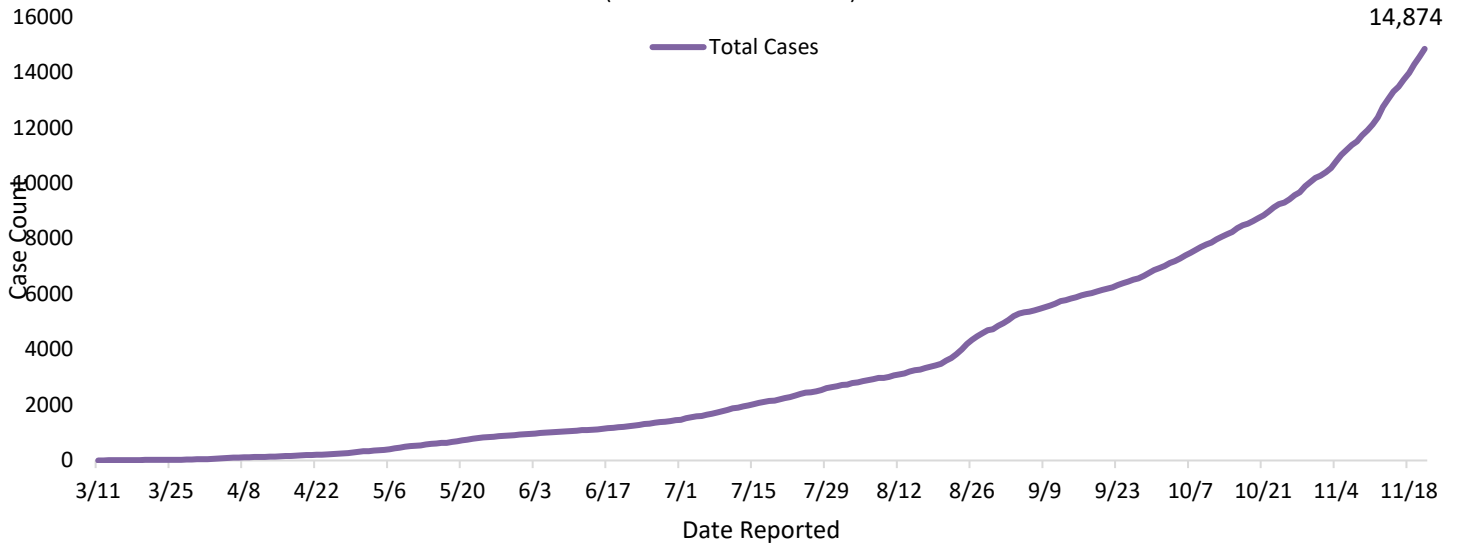
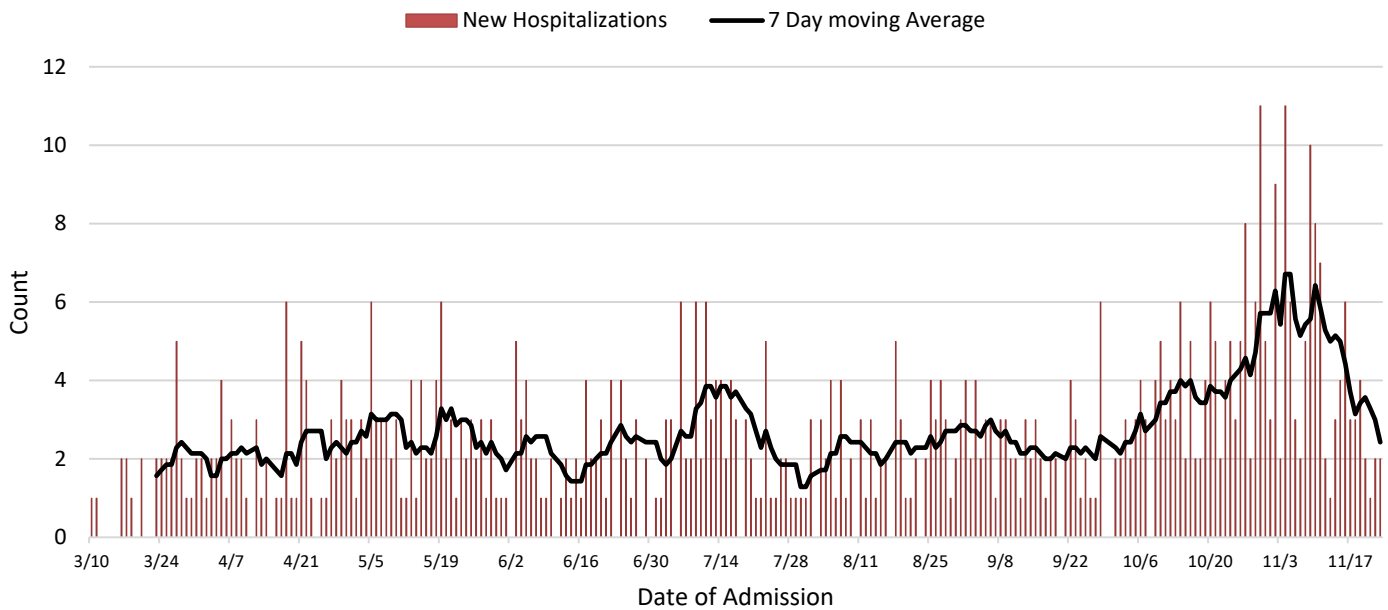


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020*



Hospitalizations are increasing for Butler County residents. **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 69 cases where the date of admission is unknown and have been included by date they were reported. **No Miami Students have been hospitalized.**

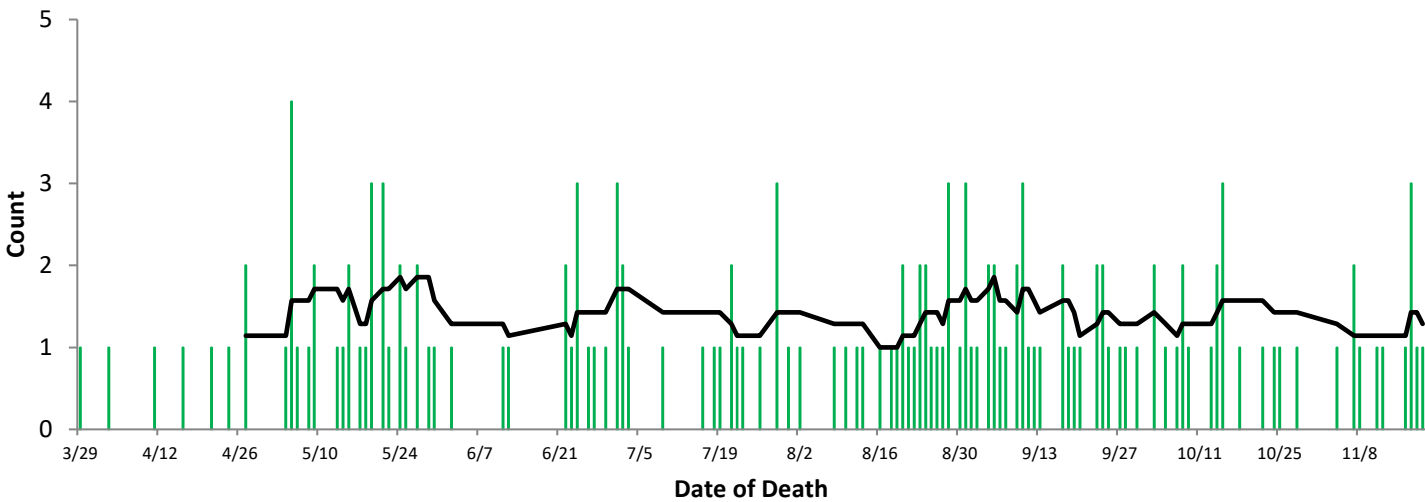
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Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	154	1.0%
Age		
	N	
Range	30-101	
Median	80	
Mean	76.9	
Race		
	N	%
NH White	129	83.7%
NH Black	17	11.0%
Asian	4	2.6%
Hispanic	2	1.3%
Unknown	2	1.3%
Sex		
Male	75	
Female	79	
High Risk**	142	92.2%
Resides in Long-Term Care	60	39.0%

**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

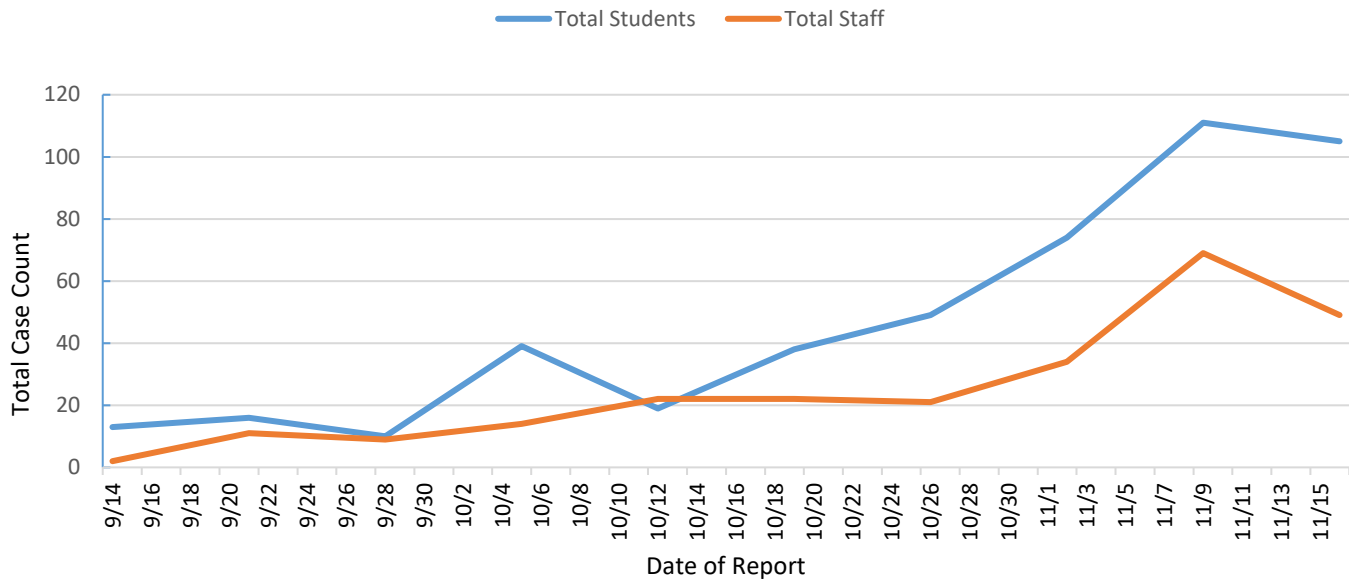
ZIP Code	Number of Cases	Change from previous week	Rate per 10,000	% of Confirmed Cases	Total deaths
Miami University Students	2,612	↑145 (5.9%) from 2467	2009.2	22.9%	-
45011	2,176	↑315 (16.9%) from 1861	312.3	19.0%	18
45014	1,888	↑ 262 (16.1%) from 1626	429.9	16.5%	38
45044	1,790	↑ 237 (15.3%) from 1553	338.9	15.7%	31
45013	1,657	↑266 (19.1%) from 1391	314.9	14.5%	31
45069	1,544	↑229 (17.4%) from 1315	314.7	13.5%	7
45042	906	↑ 129 (16.6%) from 777	342.5	7.9%	4
45067	448	↑53 (13.4%) from 395	322.3	3.9%	-
45015	361	↑50 (16.1%) from 311	299.9	3.2%	6
45050	346	↑ 57(19.7%) from 289	404.8	3.0%	5
45056**	271	↓14 (-4.9%) from 285	193.0	2.4%	9
45241	202	↑ 31 (18.1%) from 171		1.8%	2
45005	77	↑ 16 (26.2%) from 61		0.7%	1
45053	82	↑11 (15.5%) from 71	239.8	0.7%	-
45246	32	↑ 4 (14.3%) from 28		0.3%	-
45064	37	↑4 (12.1%) from 33		0.3%	-
45062	24	↑ 3 (14.3%) from 21		0.2%	-
Cases lacking zip code information or from zip codes with <5 cases	421	-	-	3.0%	2
Butler County (inclusive)	14,874	↑1,830 (14.03%) from 13,044	388.9	100%	154

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-19 cases reported by Butler County School Districts



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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	7	4	0
13	3/28	15	7	0
14	4/4	45	16	2
15	4/11	51	19	1
16	4/18	45	9	1
17	4/25	58	21	2
18	5/2	109	16	2
19	5/9	151	19	9
20	5/16	138	16	6
21	5/23	184	24	9
22	5/30	199	12	7
23	6/6	107	14	1
24	6/13	80	11	2
25	6/20	115	13	0
26	6/27	173	18	8
27	7/4	203	10	7
28	7/11	291	21	1
29	7/18	261	22	2
30	7/25	300	13	5
31	8/1	279	10	5
32	8/8	254	16	2
33	8/15	276	13	3
34	8/22	445	15	7
35	8/29	996	24	10
36	9/5	671	12	10
37	9/12	402	19	9
38	9/19	356	15	5
39	9/26	427	13	6
40	10/3	595	10	5
41	10/10	674	17	5
42	10/17	687	30	6
43	10/24	761	24	3
44	10/31	948	40	2
45	11/7	1,192	44	2
46	11/14	1,667	31	3
47	11/21	1,800	24	6

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