

Butler County General Health District COVID-19 Update (11/14/2020) Confirmed and Probable COVID-19 Cases Reported to Butler County* Butler County Residents, 2020

Total # of Cases (11/14):	13,044*
Butler County Residents (11/14):	10,577
Miami University (11/14):	2,467
Confirmed Deaths (11/14):	142
First Case Reported:	3/11/2020
Last Case Reported (so far):	11/14/2020
Confirmed Cases:	12,876
Probable Cases:	168
Age Range:	<1-101
Median Age:	35
Mean Age:	39.1
Incidence:	3404.6 per 100,000

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

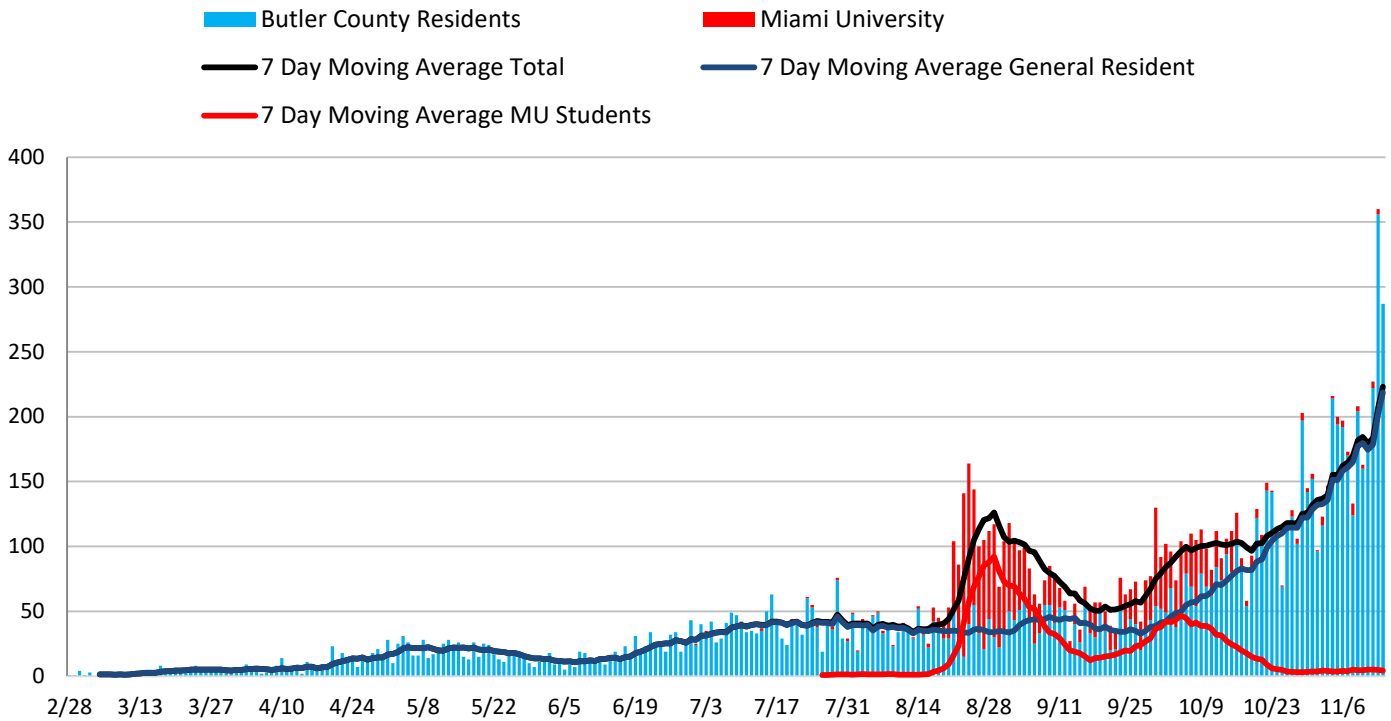


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 11/14/2020. 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)

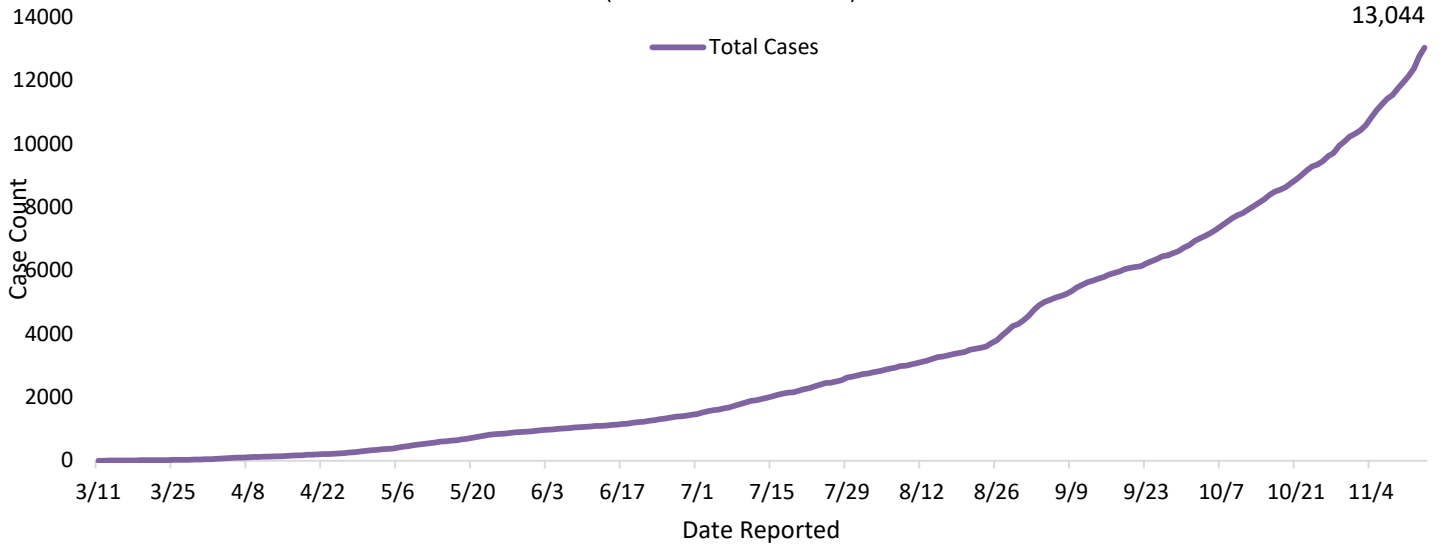
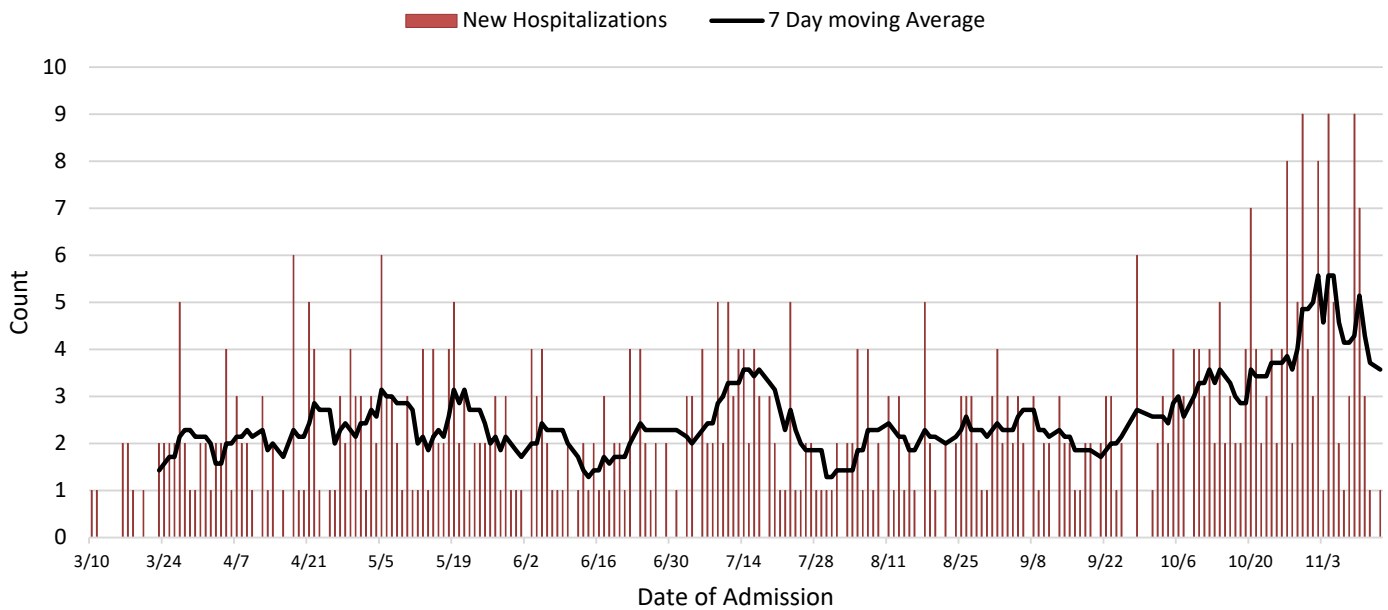


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020*



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 62 cases where the date of admission is unknown and have been included by date they were reported. **No Miami Students have been hospitalized.**

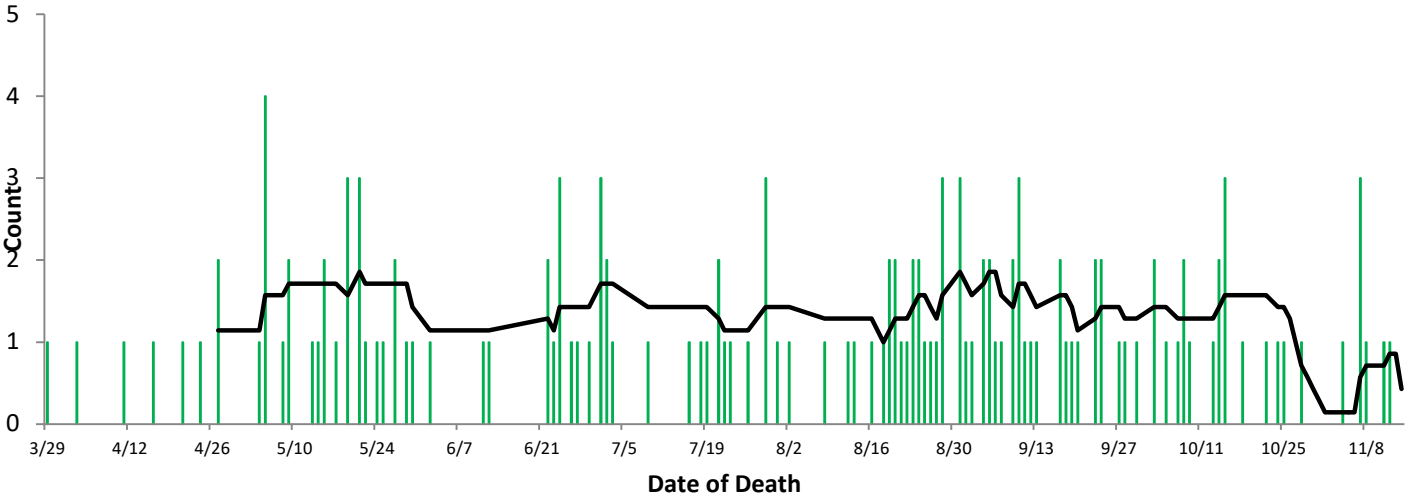
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Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	142	1.1%
Age		
	N	
Range	30-101	
Median	78	
Mean	75.7	
Race		
	N	%
NH White	112	78.9%
NH Black	16	11.9%
Asian	4	3.0%
Hispanic	3	2.2%
Unknown	7	5.2%
Sex		
	N	%
Male	72	
Female	70	
High Risk**	131	92.2%
Resides in Long-Term Care	56	39.2%

**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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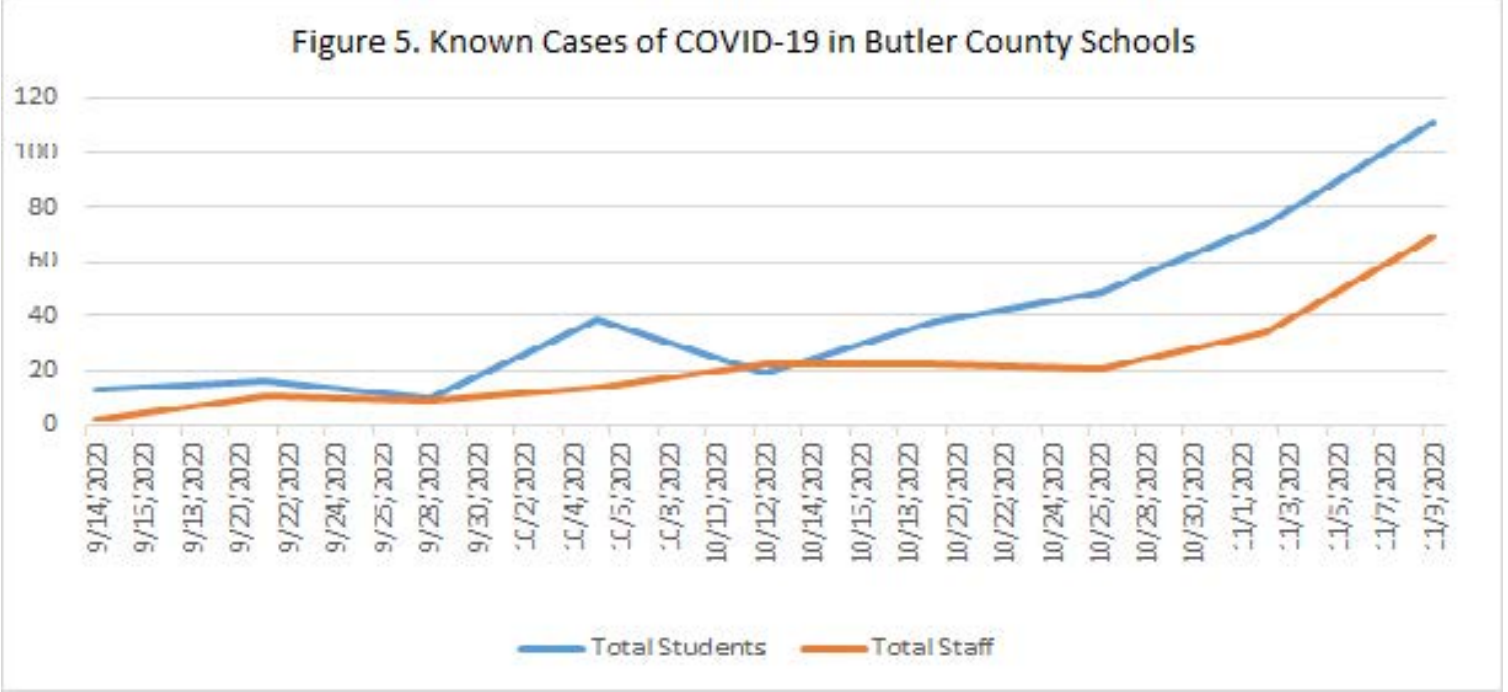
Table 2: Total Reported* Cases by ZIP Code

ZIP Code	Number of Cases	Change from previous week	Rate per 10,000	% of Confirmed Cases	Total deaths
Miami University Students	2467	↑24 (1.0%) from 2443	1,897.7	21.4%	-
45011	1861	↑285 (18.1%) from 1576	267.1	13.8%	15
45014	1626	↑ 190(13.2%) from 1436	370.2	12.6%	36
45044	1553	↑ 177 (12.9%) from 1376	294.0	12.0%	30
45013	1391	↑233 (20.1%) from 1158	264.4	10.1%	26
45069	1315	↑241 (22.4%) from 1074	268.0	9.4%	7
45042	777	↑ 124 (19.0%) from 653	293.8	5.7%	5
45067	395	↑42 (11.9%) from 353	284.2	3.1%	6
45015	311	↑37 (13.5%) from 274	258.3	2.4%	-
45050	289	↑ 48(19.9%) from 241	338.1	2.1%	4
45056**	285	↑47 (19.7%) from 238	203.0	2.1%	8
45241	171	↑ 26 (17.9%) from 145	-	1.3%	2
45005	61	↑ 5 (8.9%) from 56	-	0.5%	1
45053	71	↑15 (26.8%) from 56	207.6	0.5%	-
45246	28	↑ 0 (0.0%) from 28	-	0.2%	-
45064	33	↑9 (37.5%) from 24	-	0.2%	-
45062	21	↑ 7 (50.0%) from 14	-	0.1%	1
Cases lacking zip code information or from zip codes with <5 cases	389	-	-	3.0%	1
Butler County (inclusive)	13,044	↑1,615 (14.13%) from 11,429	340.5	100%	142

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



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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	45	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	115	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	300	13	5
31	8/1	286	10	5
32	8/8	255	16	2
33	8/15	277	13	2
34	8/22	272	14	8
35	8/29	705	24	10
36	9/5	832	12	9
37	9/12	555	19	9
38	9/19	411	15	5
39	9/26	405	13	5
40	10/3	571	9	5
41	10/10	724	18	5
42	10/17	747	30	6
43	10/24	797	23	3
44	10/31	944	36	1
45	11/7	1,189	23	4
46	11/14	1,623	24	3

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