

Butler County General Health District COVID-19 Update (12/05/2020) Confirmed and Probable COVID-19 Cases Reported to Butler County* Butler County Residents, 2020

Total # of Cases (12/05):	19,141*
Butler County Residents (12/05):	16,470
Miami University (12/05):	2,671
Confirmed Deaths (12/05):	165
First Case Reported:	3/11/2020
Last Case Reported (so far):	12/05/2020
Confirmed Cases:	18,837
Probable Cases:	304
Age Range:	<1-101
Median Age:	38
Mean Age:	40.1
Incidence:	4,995.9 per 100,000
Prevalence (3/11-12/5):	5% of BC population

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

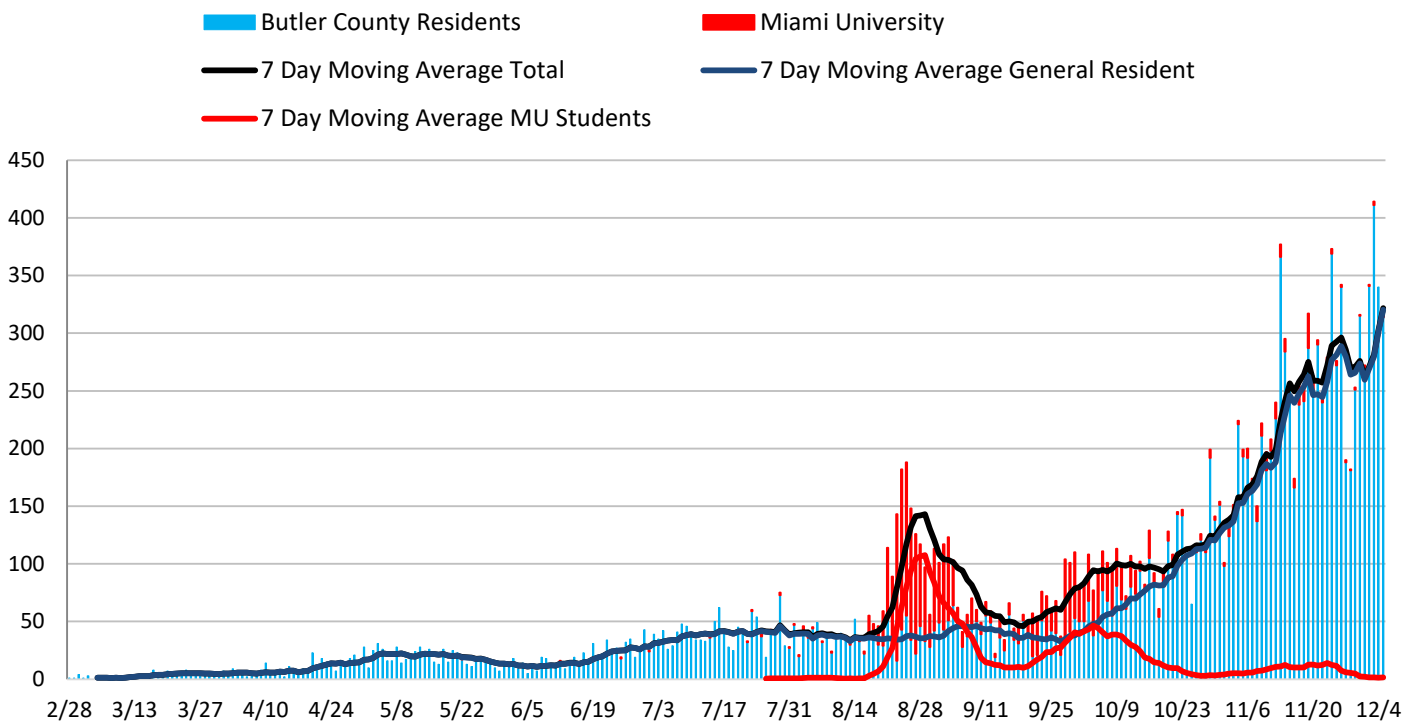


Figure 1 shows the daily incidence (new cases) by event date. Figure 2 shows the cumulative (total ongoing) case count. NOTE: Each case reported represents a unique individual that meets case definition. Duplicate tests are removed as are tests that are performed to verify infection status. **Each person 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 12/05/2020. 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)

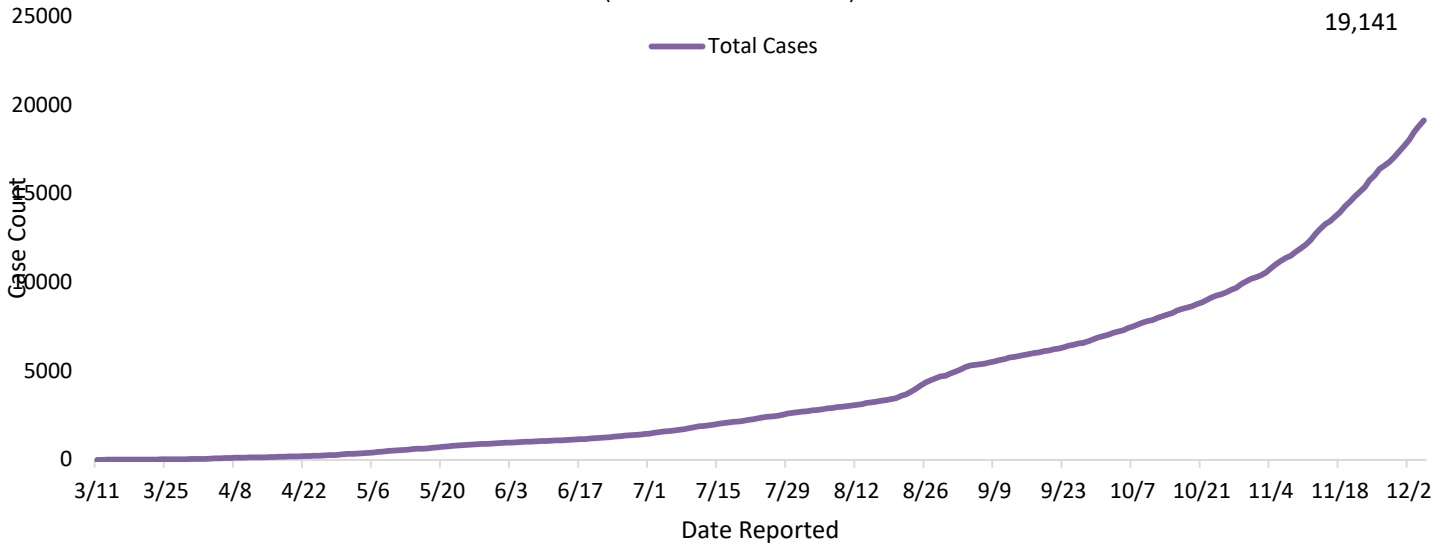
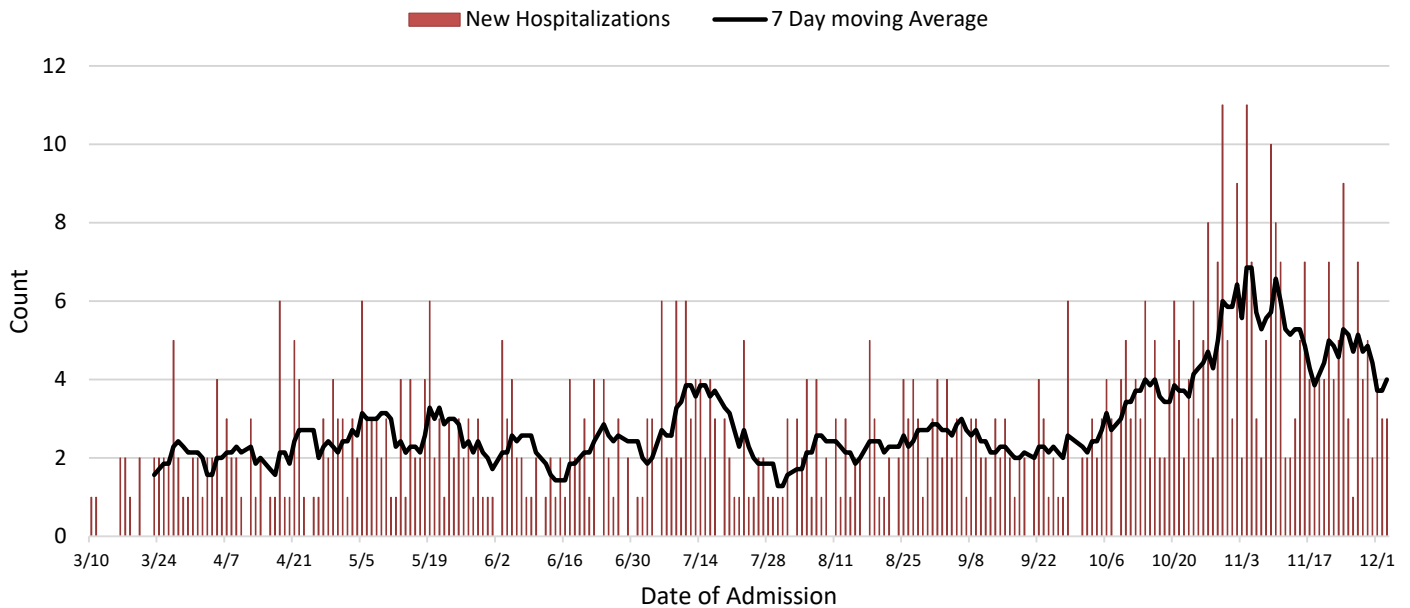


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020*



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

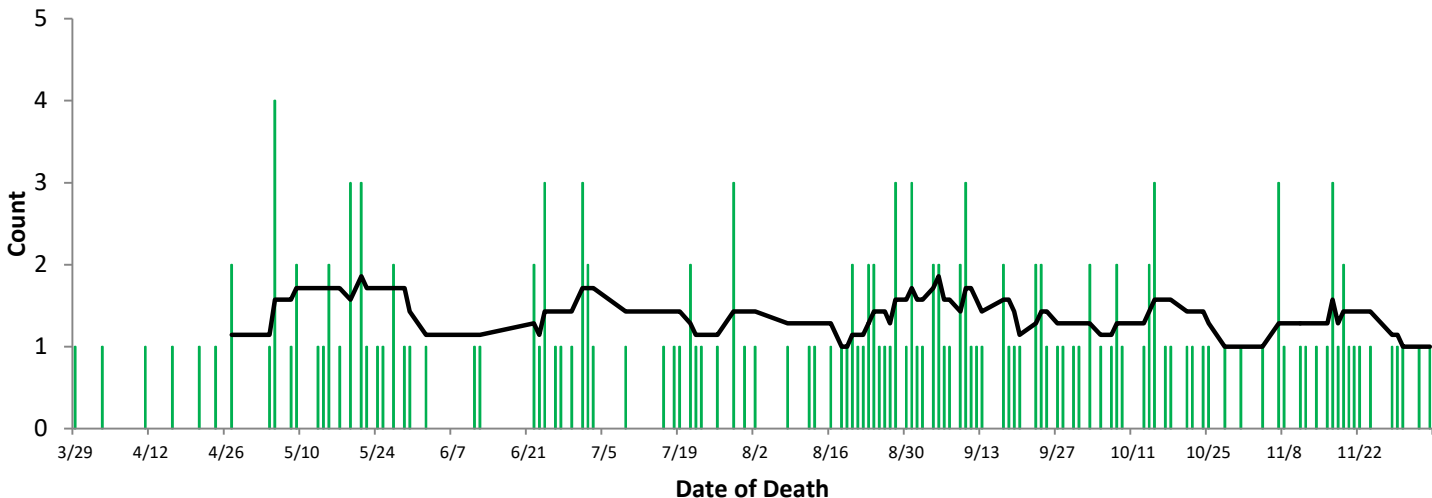
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Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	165	0.86 %
Age		
Range	30-101	
Median	80	
Mean	77.2	
Race		
NH White	138	81.1%
NH Black	18	10.7%
Asian	4	2.5%
Hispanic	2	1.3%
Unknown	3	4.4%
Sex		
Male	81	
Female	84	
High Risk**	157	95%
Resides in Long-Term Care	65	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

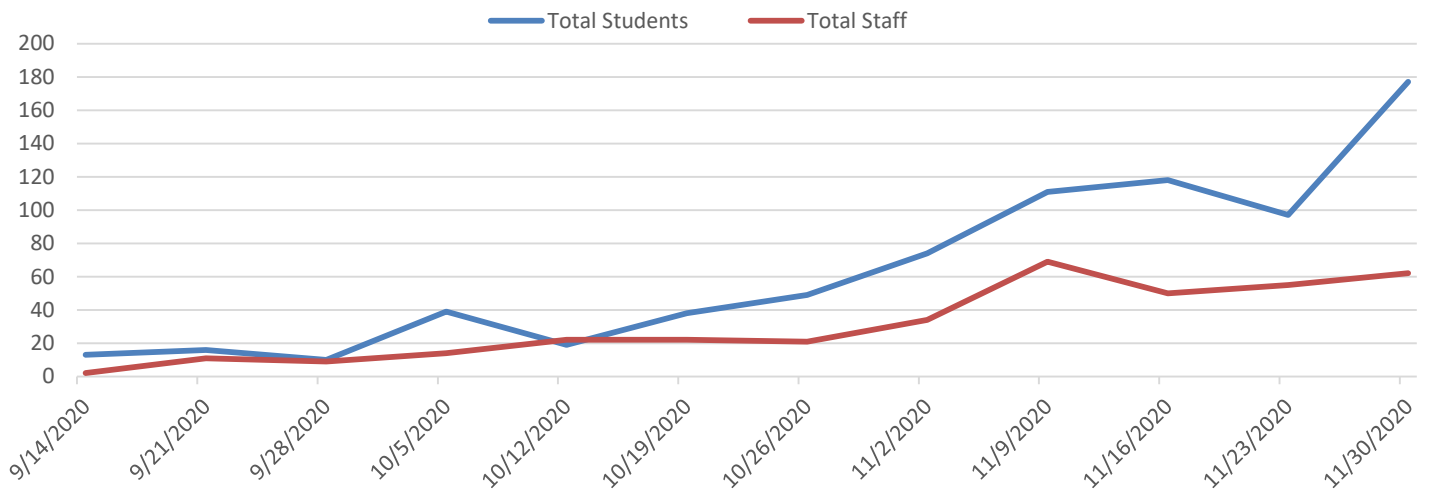
ZIP Code	Number of Cases	Change from previous week		Rate per 10,000	% of Confirmed Cases	Total deaths
45011	3021	↑413 (15.8%)	From 2,608	433.6	15.8%	18
Miami University Students	2671	↑21 (0.8%)	from 2,650	2054.6	14.0%	-
45014	2375	↑246(11.6%)	from 2,129	540.8	12.4%	37
45044	2329	↑294 (14.4%)	from 2,035	440.9	12.2%	32
45013	2325	↑357 (18.1%)	from 1,968	441.9	12.1%	38
45069	2067	↑267 (14.8%)	from 1,800	421.3	10.8%	8
45042	1256	↑175 (16.2%)	from 1,081	474.8	6.6%	6
45067	617	↑87 (16.4%)	from 530	443.9	3.2%	-
45015	466	↑61 (15.1%)	from 405	387.1	2.4%	6
45050	463	↑51(12.4%)	from 412	541.6	2.4%	5
45056	416	↑30 (7.8%)	from 386	296.3	2.2%	9
45241	263	↑29 (12.4%)	from 234		1.4%	2
45053	129	↑23 (21.7%)	from 106	377.2	0.7%	-
45005	106	↑16 (17.8%)	from 90		0.6%	1
45064	57	↑9 (18.8%)	from 48		0.3%	-
45246	36	↑1 (2.9%)	from 35		0.2%	-
45062	32	↑2 (6.7%)	from 30		0.2%	-
Cases lacking zip code information or from zip codes with too few cases	512		-	-	2.7%	3
Butler County (inclusive)	19,141	↑2,106 (12.4%)	from 17,035	499.6	100%	165

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 too few 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	12	1	0
12	3/21	7	3	0
13	3/28	15	7	0
14	4/4	45	16	2
15	4/11	52	19	1
16	4/18	45	9	1
17	4/25	58	21	2
18	5/2	110	16	2
19	5/9	150	19	8
20	5/16	138	16	4
21	5/23	182	24	8
22	5/30	99	12	6
23	6/6	107	14	1
24	6/13	81	12	2
25	6/20	116	13	0
26	6/27	173	18	8
27	7/4	203	10	7
28	7/11	287	21	1
29	7/18	260	22	2
30	7/25	297	13	5
31	8/1	282	10	5
32	8/8	255	16	2
33	8/15	275	13	2
34	8/22	444	14	8
35	8/29	1009	24	10
36	9/5	663	12	10
37	9/12	403	19	9
38	9/19	360	15	5
39	9/26	429	13	6
40	10/3	600	14	6
41	10/10	670	21	5
42	10/17	690	25	7
43	10/24	760	28	3
44	10/31	929	41	3
45	11/7	1180	37	4
46	11/14	1643	37	4
47	11/21	1813	35	9
48	11/28	1950	33	3
49	12/05	2349	17	4

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