

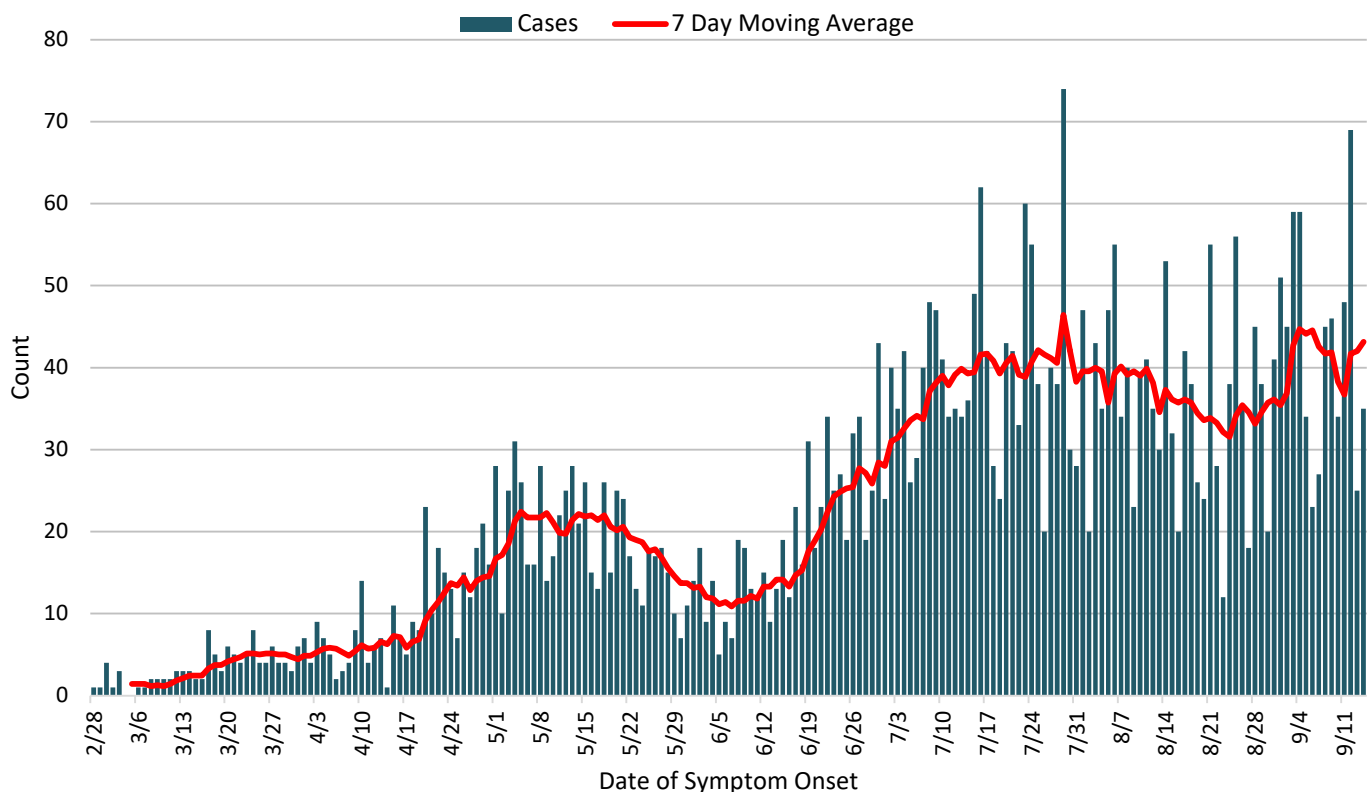
Butler County General Health District COVID-19 Update (09/14/2020)

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

Butler County Residents, 2020

Total # of Cases (9/14):	4487*
Miami University (9/16):	1351[#]
Confirmed Deaths (09/14):	95
First Case Reported:	3/11/2020
Last Case Reported (so far):	9/14/2020
Confirmed Cases:	4427
Probable Cases:	60
Age Range:	<1-101
Median Age:	42
Mean Age:	43.0
Incidence Rate:	1,173.4 per 100,000

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



This figure as well as all subsequent figures until Table 3 and Figure 5 are exclusive of known Miami University students. Figure 1 shows the daily incidence (new cases) by date of symptom onset. Figure 2 shows the cumulative (total ongoing) case count. The 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.**

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 09/14/2020. 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.

*Data is provisional – only confirmed or probable COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 09/14/2020 at 1700 EDT.

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Figure 2. Cumulative Cases Reported to Butler County by Date Reported*, 2020
(Confirmed and Probable)

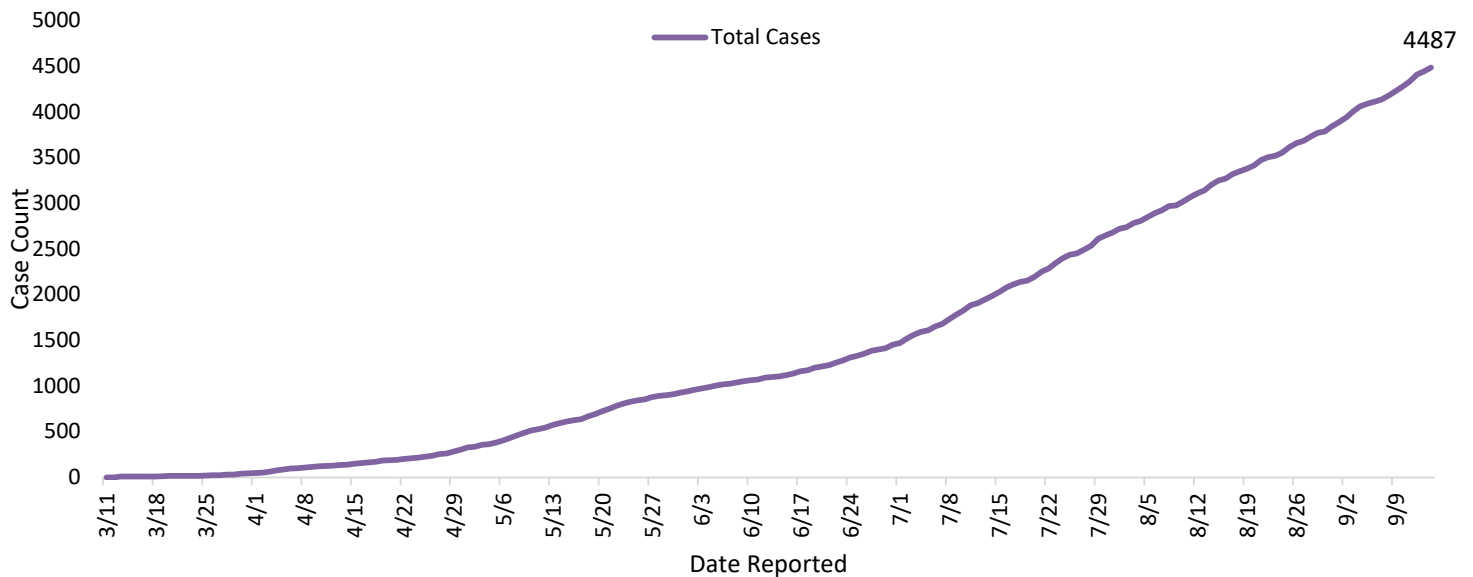
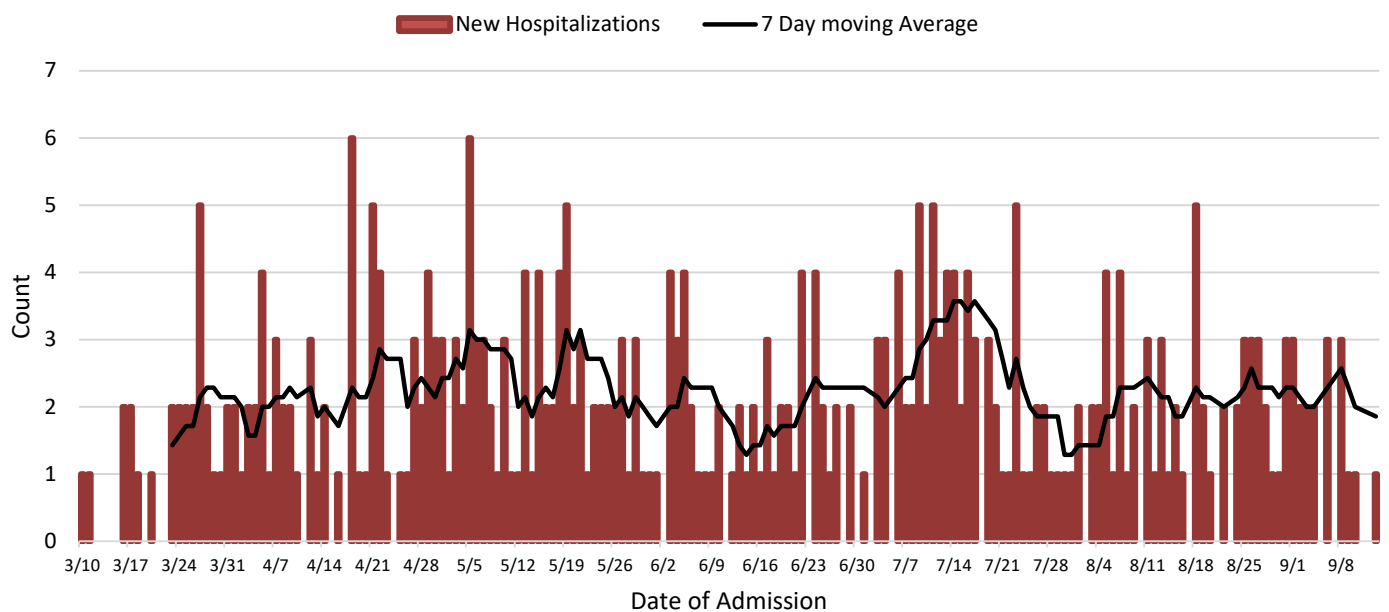


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020*



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

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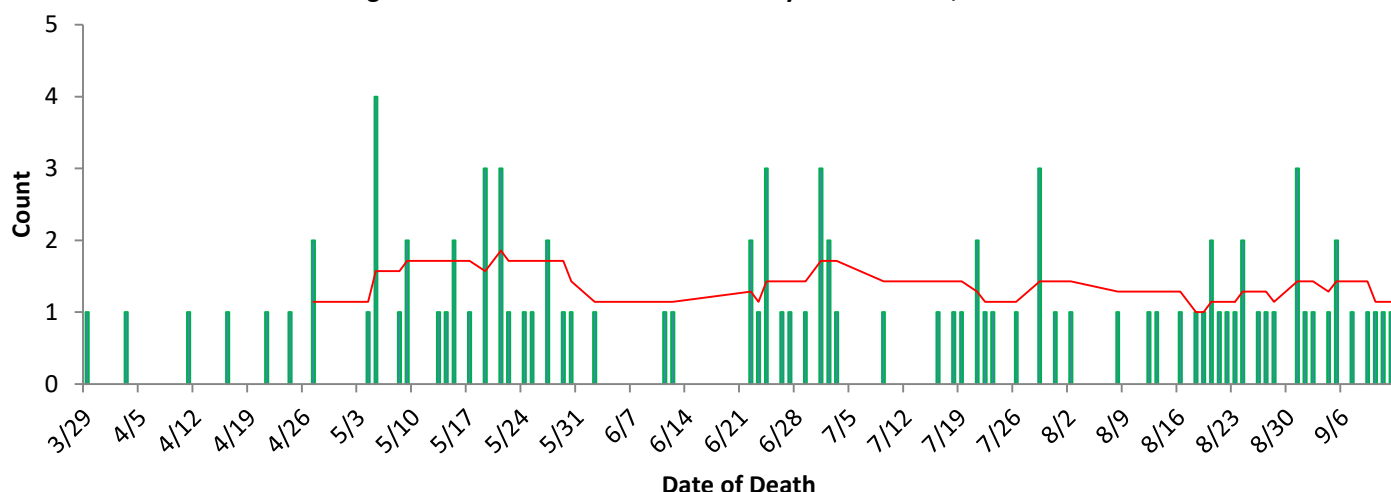
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Table 1. Death Statistics, 2020		
	N	%
Confirmed Deaths	95	2.1%
Age	N	
Range	30-101	
Median	77	
Mean	75.1	
Race	N	%
NH White	74	77.9%
NH Black	15	15.8%
Asian	3	3.2%
Hispanic	2	2.1%
Unknown	1	1.1%
	N	%
High Risk**	94	98.9%
Resides in Long-Term Care	37	39.9%

**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	Rate per 100,000	% of Confirmed Cases
45011	792	1,136.7	17.7%
45014	788	1,794.3	17.6%
45044	691	1,308.2	15.4%
45013	514	976.9	11.5%
45069	498	1,015.1	11.1%
45042	266	1,005.6	5.9%
45056**	151	558.5	3.4%
45015	150	1,246.1	3.3%
45067	147	1,057.7	3.3%
45050	113	1,321.9	2.5%
45241	68	-	1.5%
45005	29	-	0.6%
45246	21	-	0.5%
45053	15	438.6	0.3%
45064	11	-	0.2%
45062	7	-	0.2%
Cases lacking zip code information or from zip codes with <5 cases	226	-	5.0%
Butler County (inclusive)	4487		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.			

**Some persons previously reported for 45056 as positive (non-student population) were later found to actually be MU students. They were removed from the totals for 45056 this week, thus the number appears to have decreased. Actually, these individuals are now included in the MU-only report that follows. No person was counted twice as all individuals are coded as either MU or not MU, to ensure that double counting does not occur.

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**Butler County
General Health District**

Table 3. Known Miami University Cases of COVID-19 August 17-September 16, 2020*

Report Period	New Cases	Cumulative Cases
Prior August 30, 2020	278	278
August 31, 2020	249	527
September 1, 2020	45	572
September 2, 2020	132	704
September 3, 2020	129	833
September 4, 2020	98	931
September 5, 2020	5	936
September 6, 2020	80	1016
September 7, 2020	13	1029
September 8, 2020	55	1084
September 9, 2020	33	1117
September 10, 2020	57	1174
September 11, 2020	69	1243
September 12, 2020	29	1272
September 13, 2020	12	1284
September 14, 2020	26	1310
September 15, 2020	30	1340
September 16, 2020	11	1351

*Due to the administrative task of reconciling the data reported out of different surveillance systems, there will be a lag in cases, and it should be assumed by those reading that there are more cases than are listed. These cases listed represent only those that the Health District verified to be unique, individual cases associated with Miami University. Daily incidence and reports start on August 30, 2020. Cases represent physician reports, lab reports, hospital reports, and electronic reports in the Ohio Disease Reporting System 9/15/2020 0900 EDT and are provisional and subject to change. Data is inclusive of all known on and off-campus cases. Event date is defined as the earliest date that we are aware of a case in the event that illness onset is not defined. This could be the date of physician's diagnosis, test result, test collection date, or date reported to ODH, BCGHD, or Miami University. 52 cases have an unknown Event Date.

Table 4. Cases Reported for Miami University students from August 17- September 16 [#]			
	Case Count	Rate per <u>10</u> persons	Prevalence of COVID-19 in time period
Total	1351	1.04	10.4%
Reported in last 14 Days	659	.54	5.4%

Rate and prevalence based on an estimated 13,000 students who have returned to Oxford, OH, given by university officials. 136 cases from prior to 8/31 have no date of report. The increase in the student population due to move-in week will have a dramatic impact on rates until the population re-stabilizes.

Figure 5. Cumulative Count of Miami University Student Cases of COVID-19*

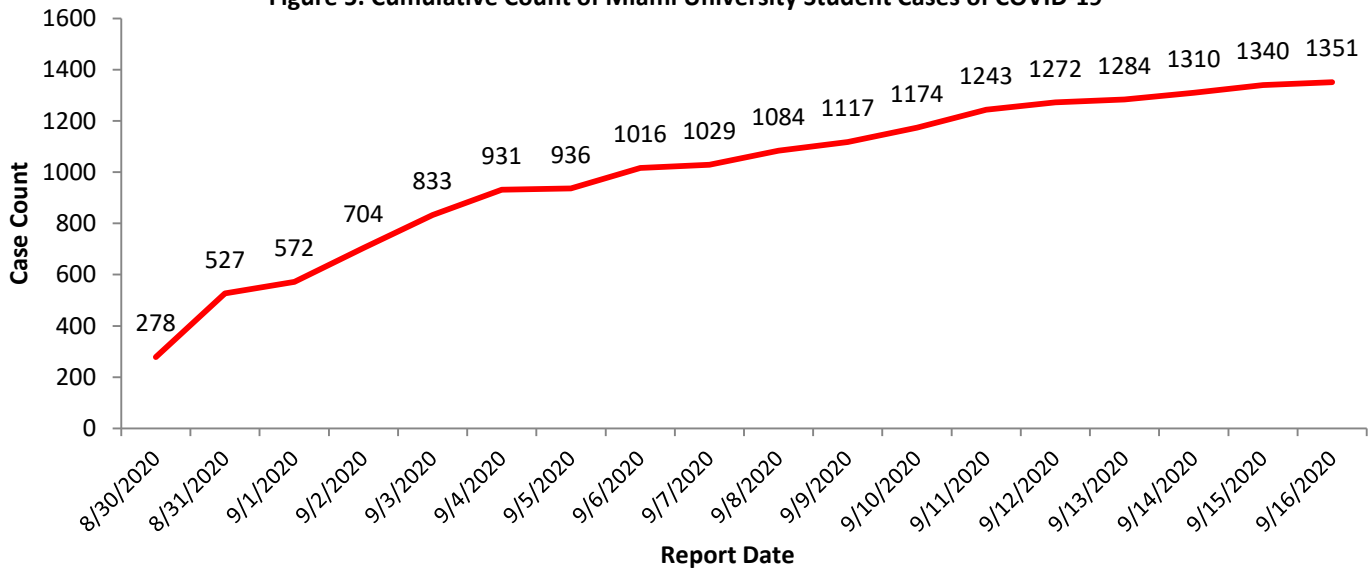
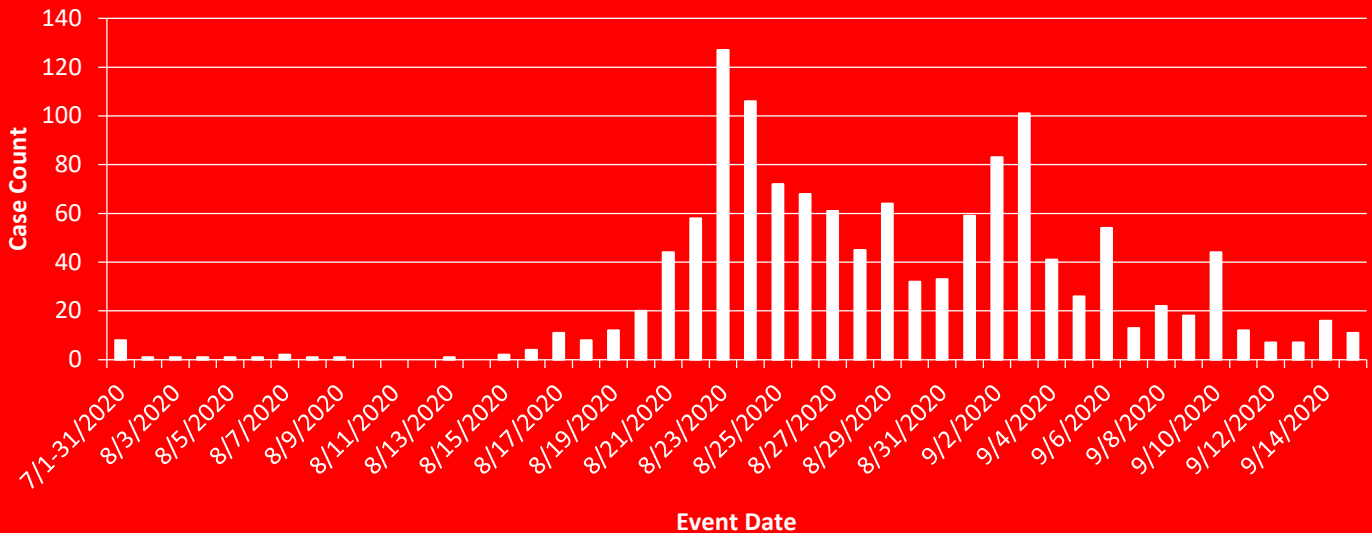


Figure 6. Case Count of Miami University Student Cases of COVID-19 by Event Date*



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