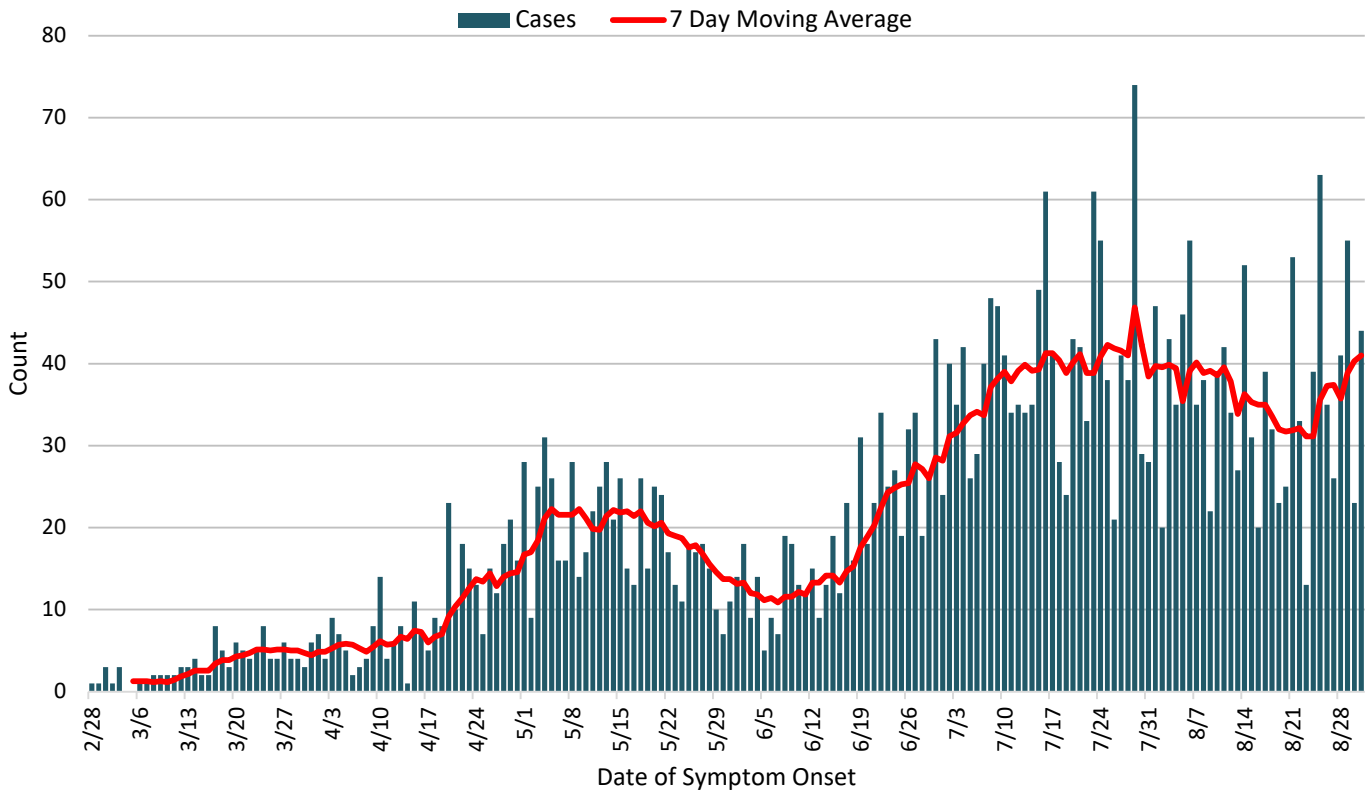


## Butler County General Health District COVID-19 Update (08/31/2020)

### Confirmed and Probable COVID-19 Cases Reported to Butler County\* Butler County Residents, 2020

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Total # of Cases (8/31):</b>     | 3907*              |
| <b>Miami University (9/4):</b>      | <b>925#</b>        |
| <b>Confirmed Deaths (08/31):</b>    | 76                 |
| <b>First Case Reported:</b>         | 3/11/2020          |
| <b>Last Case Reported (so far):</b> | 8/24/2020          |
| <b>Confirmed Cases:</b>             | 3853               |
| <b>Probable Cases:</b>              | 54                 |
| <b>Age Range:</b>                   | <1-101             |
| <b>Median Age:</b>                  | 41                 |
| <b>Mean Age:</b>                    | 42.7               |
| <b>Incidence Rate:</b>              | 1021.8 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.**

All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 08/31/2020. 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 08/31/2020 at 1700 EDT.

\*This Data is NOT included in the general population count and is recorded from physician reports, hospital laboratories, Miami University, outside health jurisdictions, Out-of-state Health Departments, and ODRS at 9/4/2020 0900 EDT. Reports from all sources have been verified to determine that they meet Case Definition as described by the Council of State and Territorial Epidemiologists

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

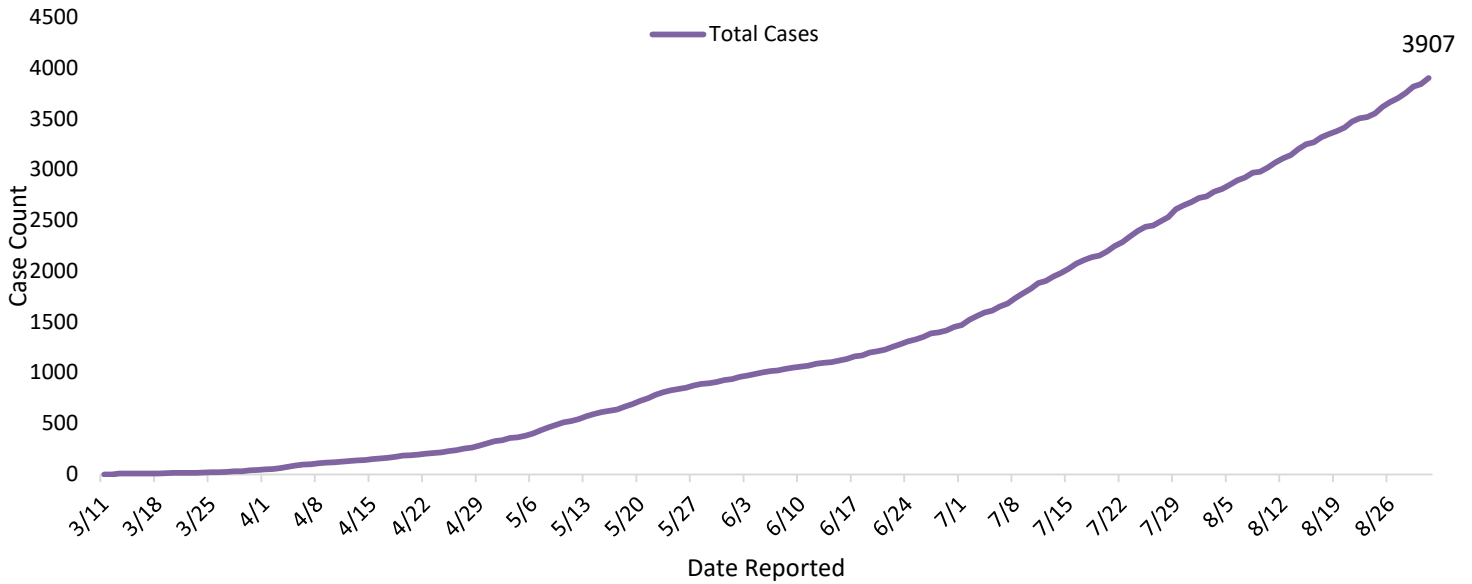
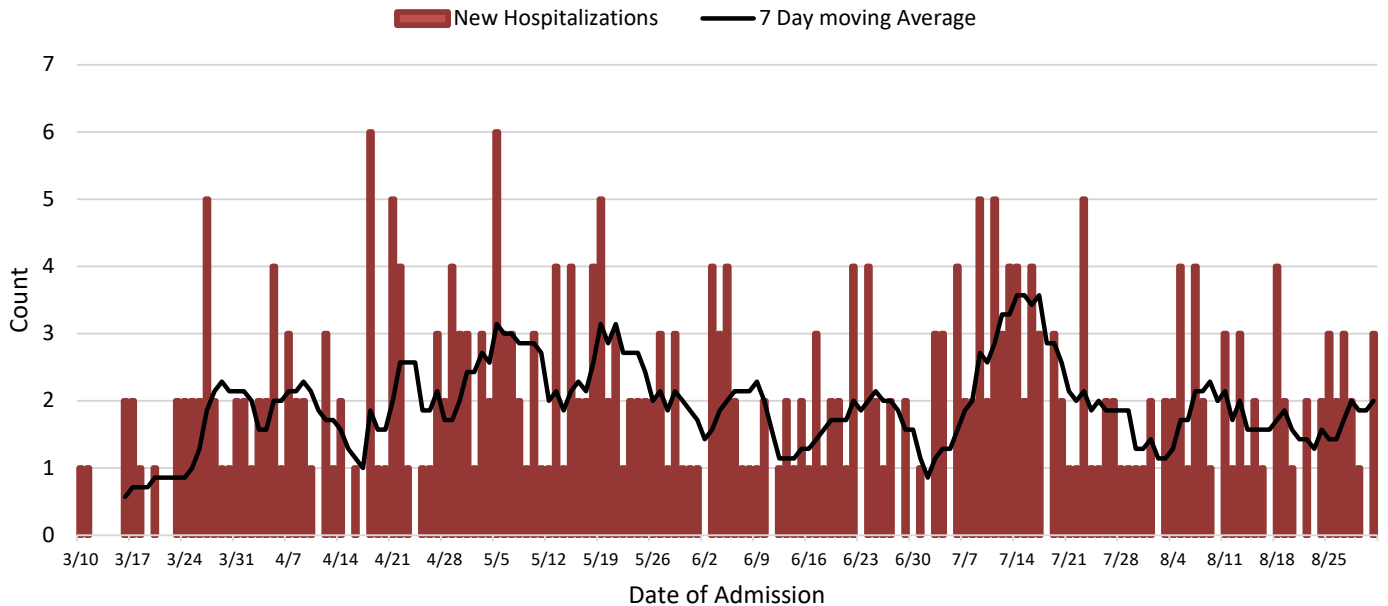


Figure 3. New Hospitalizations of Butler County Residents by Admission Date, 2020\*



Hospitalizations have seen an encouraging trend over the past reporting periods as they continue to go down. This mirrors the decrease that we have been seeing in total cases overall. **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 20 admissions for which the date of admission is not available.

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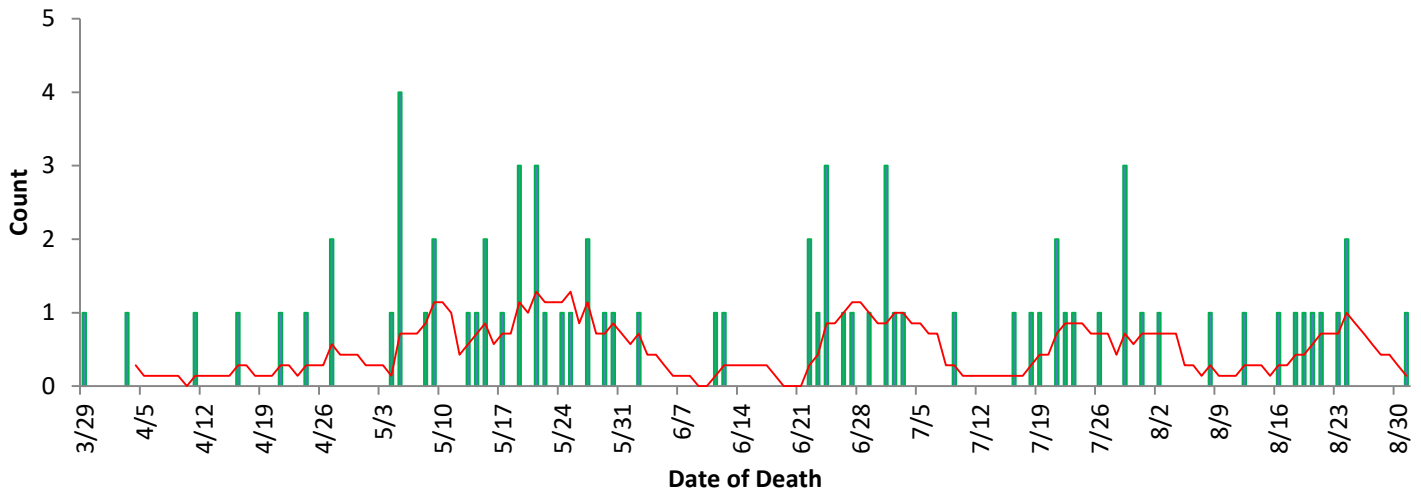
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| Table 1. Death Statistics, 2020 |        |       |
|---------------------------------|--------|-------|
|                                 | N      | %     |
| Confirmed Deaths                | 76     | 1.9%  |
| Age                             |        |       |
| Range                           | 30-101 |       |
| Median                          | 77     |       |
| Mean                            | 75.0   |       |
| Race                            |        |       |
| NH White                        | 58     | 76.3% |
| NH Black                        | 14     | 18.4% |
| Asian                           | 3      | 3.9%  |
| Hispanic                        | 1      | 1.9%  |
| High Risk**                     |        |       |
| High Risk**                     | 75     | 98.7% |
| Resides in Long-Term Care       | 34     | 44.7% |

\*\*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.**

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| Table 2: Total Reported* Cases by ZIP Code                         |                 |                  |                      |
|--|-----------------|------------------|----------------------|
| ZIP Code   | Number of Cases | Rate per 100,000 | % of Confirmed Cases |
| 45014  | 694             | 1,580.3          | 17.8%                |
| 45011  | 687             | 986.0            | 17.6%                |
| 45044  | 606             | 1,147.2          | 15.5%                |
| 45069  | 445             | 907.1            | 11.4%                |
| 45013  | 389             | 739.4            | 10.0%                |
| 45042  | 217             | 820.4            | 5.6%                 |
| 45056*   | 183             | 676.8            | 4.7%                 |
| 45015  | 135             | 1,121.4          | 3.5%                 |
| 45067  | 122             | 877.8            | 3.1%                 |
| 45050  | 101             | 1,181.6          | 2.6%                 |
| 45241  | 49              | -                | 1.3%                 |
| 45005  | 28              | -                | 0.7%                 |
| 45246  | 20              | -                | 0.5%                 |
| 45053  | 13              | 380.1            | 0.3%                 |
| 45064  | 10              | -                | 0.3%                 |
| Cases lacking zip code information or from zip codes with <5 cases | 208             | -                | 5.3%                 |
| <b>Butler County (inclusive)</b>                                   | <b>3907</b>     |                  | <b>100%</b>          |

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.

These cases do not include cases that have been verified to be a Miami University student living in Oxford, Ohio. Please reference report on following page for Miami University cases. The cases being reported from Miami are often coming across jurisdictions and different reporting platforms. These reporting mechanisms have different reporting requirements. To ensure that students are not double-counted nor are they inconsistently reported, they have been removed from the general population. While there are undoubtedly some students that have listed an Oxford address that our contact tracers have not been able to verify are students in the 45056 zip-code, we have removed all students that have been verified to attend Miami University and live in Oxford, OH, from the above counts to the best of our ability. None of those students on the following pages are included in any of the above counts. In the course of normal events, it normally takes additional time to sort out jurisdiction and collect student reports from varying surveillance systems, but this is generally not noticed because of the limited amount of reportable diseases that students normally produce and the lack of interest by the general population during non-pandemic times. This delay is now compounded by the large amounts of cases that are now coming in that have to go through this process.

| Table 3. Cases Reported for Miami University students as of September 4, 2020 <sup>#</sup> |            |                  |
|--|------------|------------------|
|  | Case Count | Rate Per 100,000 |
| Cases at Miami University  | 925        | 11,562.5         |

The rate per 100,000 is given for comparison to the general population, and it is based on estimates provided by Miami University of the amount of students that have returned to the Oxford area. Expect this number to fluctuate until the return of all students who will be in Oxford, OH, for the academic school year.

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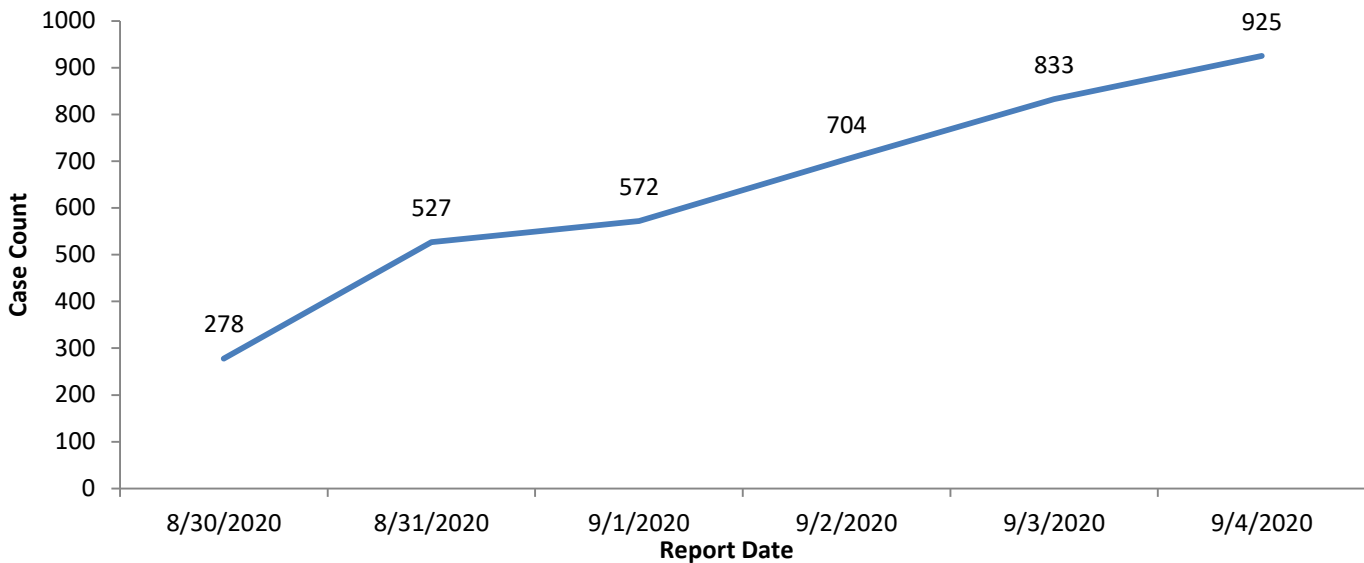
**Public Health**  
Prevent. Promote. Protect.

## Butler County General Health District

**Table 4. Miami University Cases of COVID-19 August 17-September 2, 2020\***

| Report Period             | New Cases | Cumulative Cases |
|---------------------------|-----------|------------------|
| August 17-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         | 92        | 925              |

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



\*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 9/4/2020 0900 EDT and are provisional and subject to change. Data is inclusive of all known on and off-campus cases.