



Summit County COVID-19 Activity Summary, MMWR Week 44 (10/25 – 10/31/2020)



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| OPHAS Indicators (from Ohio Dept. of Health) | Three weeks ago (10/7 – 10/13) | Two weeks ago (10/14 – 10/20) | Previous week (10/21 – 10/27) | Current Status |
|--|-----------------------------------|----------------------------------|----------------------------------|---|
| 1) Population Case Rate (previous 14 days) | 88.5 | 132.7 | 157.1 (H) | Above ODH threshold |
| 2) Sustained increase in new COVID-19 cases | Sustained increase | Sustained increase | No sustained increase | No sustained increase |
| 3) Proportion of cases not in a congregate setting (See also Figure 7 on page 4 of this report) | 46.4% | 75.8% | 50.0% | Above ODH threshold (at least 2 of 3 past weeks) |
| 4) Sustained increase in COVID-19 ED visits | Sustained increase | Sustained increase | No sustained increase | No sustained increase |
| 5) Sustained increase in COVID-19 outpatient visits | Sustained increase | Sustained increase | No sustained increase | No sustained increase |
| 6) Sustained increase in COVID-19 hospital admissions | No change | No change | Sustained increase | Sustained increase |
| 7) ICU bed occupancy (total and COVID-19) | Total: NC, COVID: ↑ | Total: NC, COVID: ↑ | Total: ↑, COVID: ↑ | Not over ODH threshold |
| OPHAS Alert Level | Level 3: Red | Level 3: Red | Level 3: Red | Level 3: Red |

Source: Ohio Disease Reporting System (ODRS) and Ohio Public Health Alert System (OPHAS): <https://coronavirus.ohio.gov/wps/portal/gov/covid-19/public-health-advisory-system/>

Note: There should be a *sustained* decrease in most OPHAS indicators for 4-6 weeks to be considered a substantial decrease in community COVID-19 activity

| Other Indicators | 10/11 - 10/17/2020 | 10/18 - 10/24/2020 | 10/25 - 10/31/2020 | Current Status |
|---|-----------------------|-----------------------|-----------------------|---------------------|
| School-associated (including sports) COVID-19 cases | 53 | 48 | 50 | Increasing ↑ |
| Pediatric testing capacity at Summit County Public Health (available to symptomatic students who cannot locate testing through other COVID-19 testing providers) | 30 tests / day | 30 tests / day | 30 tests / day | No change |
| Pediatric case rate (per 100,000 residents aged 17 and under) | 46.0 | 50.4 | 38.9 | Decreasing ↓ |

Source: Ohio Disease Reporting System (ODRS)

| Summit County COVID-19 Case Data, as of 10/31/2020 | | | |
|---|---------------------------------|---------------------------------|------------------------|
| | Cases | Hospitalizations | Deaths |
| Count | 7521 | 878 | 284 |
| Range | < 1 year to 103 years | < 1 year to 103 years | 35 to 100 years |
| Mean | 45.1 years | 63.1 years | 77.6 years |

Source: Ohio Disease Reporting System (ODRS)

Full report (including Summit County COVID-19 indicator data and definitions) can be obtained here:

<https://www.scph.org/covid/maps-data>

Data is provisional and subject to change

Date prepared: November 4, 2020

Prepared by: Summit County Public Health Communicable Disease Unit (communicabledisease@scph.org)

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**Summit County Public Health
COVID-19 Community Surveillance Report
Report #12
Centers for Disease Control and Prevention
MMWR Week 44: October 25 to 31, 2020**



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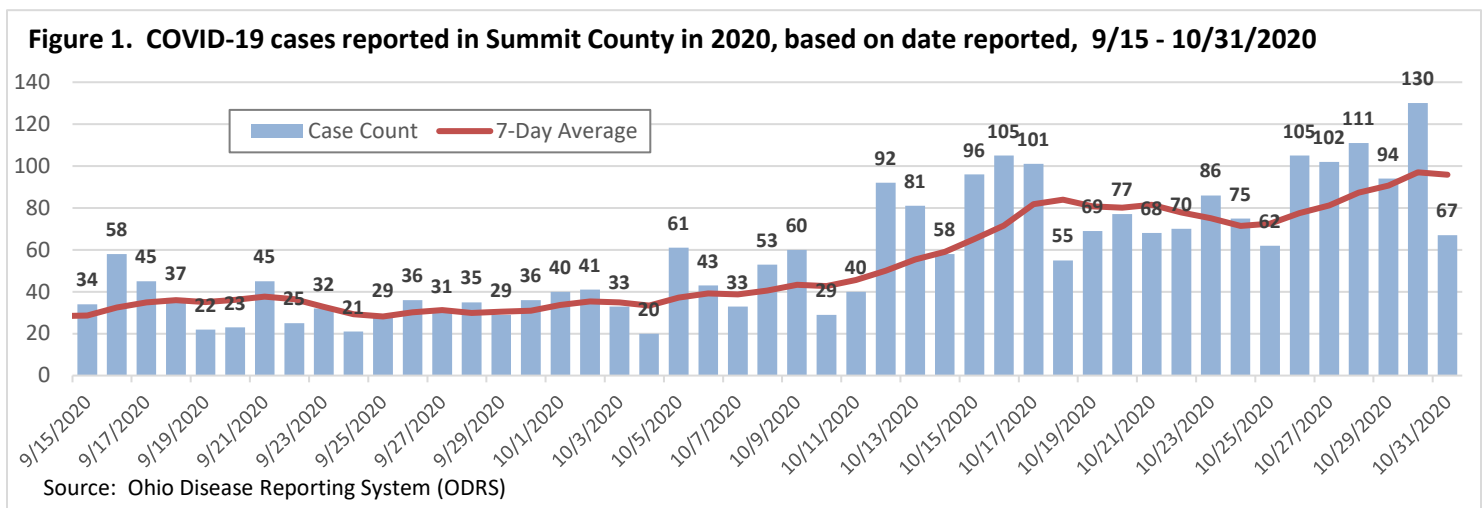
COVID-19 Case Data: Public health data can be presented in different ways. For COVID-19 case reporting, **Summit County Public Health (SCPH)** reports case count data by the date each case is reported. This provides SCPH and community partners a real-time picture of case reporting and public health response, such as case interviews, contact tracing, outbreak investigations and mitigation efforts. Summit County reports confirmed and probable cases that active cases at time of reporting, and does not include cases reported due to positive antibody test results.

The **Ohio Department of Health (ODH)** reports data the date that symptoms were first experienced (onset date). All confirmed and probable cases are reported by ODH, including probable cases due to positive antibody tests. The case graph by onset date (also known as an epidemiological curve) provides valuable information on the dynamics of disease transmission and outbreaks. However, the data in the most recent two weeks of the onset date curve will be incomplete, as many of the cases first experiencing symptoms on those dates have not yet been diagnosed and/or reported to the health department.

In this report, graphs for case counts, hospitalizations and deaths include data for the past 6 weeks. Graphs with data for the entire pandemic are included at the end of the report. In the graphs with daily data, 7 day averages are calculated to correct for data variability

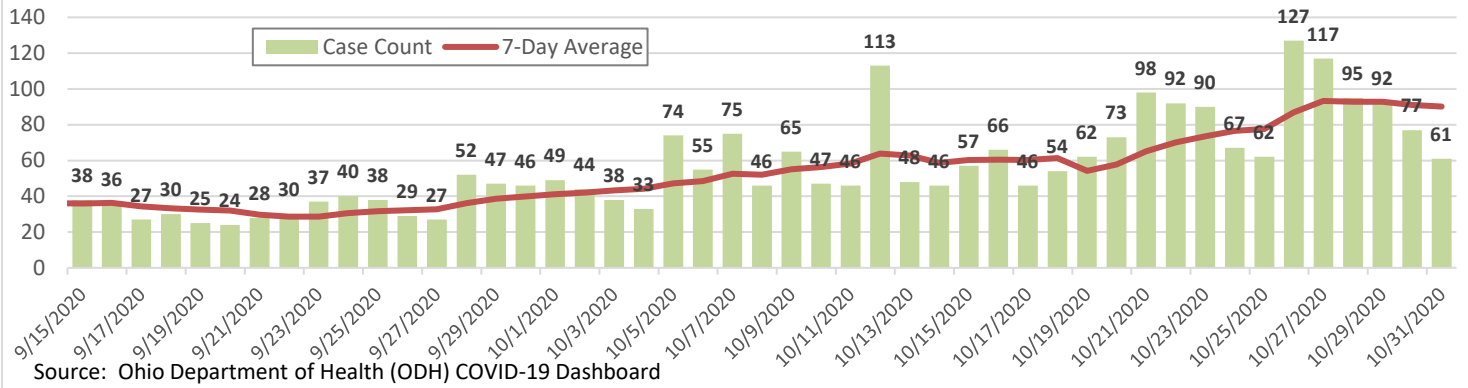
Summit County Surveillance Data:

COVID-19 Case Data: Data based on the reporting date (Figure 1) indicates that there was no sustained increase or decrease in the 7-day average of COVID-19 cases in Summit County throughout September. During that time period, the 7-day average has fluctuated from 26 to 40 cases per day. In October, the 7-day average increased from 34 to 97 cases per day on October 30. These case rates in Summit County indicate that widespread community transmission is present and increasing.



Based on symptom onset date (Figure 2), there was no sustained increase or decrease in the 7-day average of COVID-19 cases in Summit County throughout September. During that time period, the 7-day average fluctuated from 28 to 38 cases per day. Data with a case onset after October 17 is considered to be incomplete and trend determinations generally cannot be made at this time, but the increase throughout October to a 7-day average of 93.3 cases per day on October 27 is extremely concerning and indicates an increase in COVID-19 activity and community spread in Summit County.

Figure 2. COVID-19 cases reported in Summit County in 2020, based on symptom onset date, 9/15 - 10/31/2020



Weekly cases by age distribution: Figure 3 and 4 display the weekly age distribution of new cases reported since the beginning of the pandemic, based on date reported. Through Memorial Day, over 90% of reported cases were adults aged 25 and older, and children and young adults represented less than 10% of the cases. Since the early summer, the proportion of children (0 to 17 years) and young adults (18 to 24 years) remained at 20 to 25% of total cases. During the past reporting week, children accounted for 6.4% of the cases reported.

Figure 3. Age distribution of COVID-19 cases in Summit County, by MMWR week

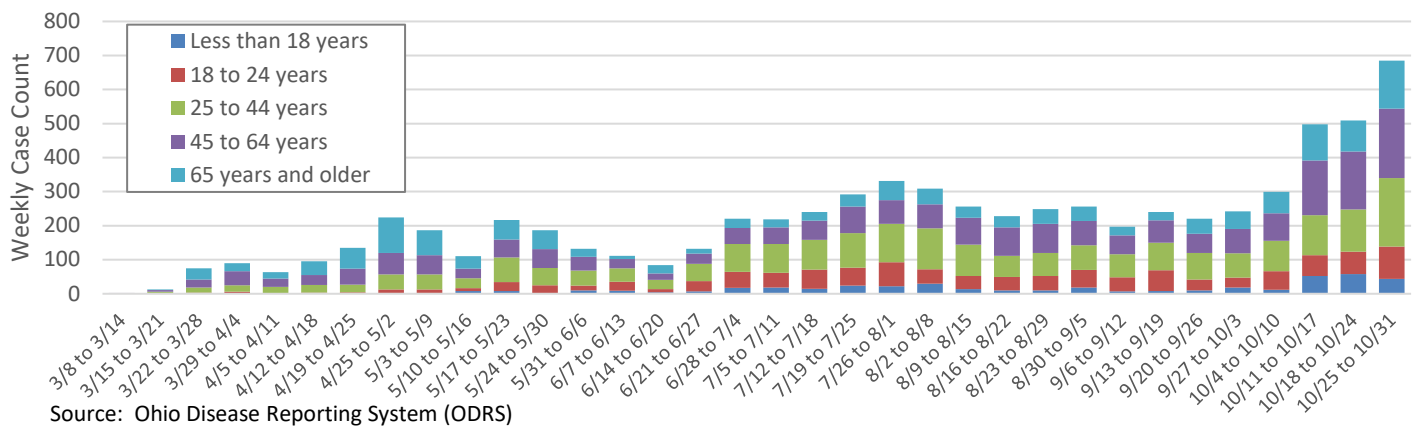
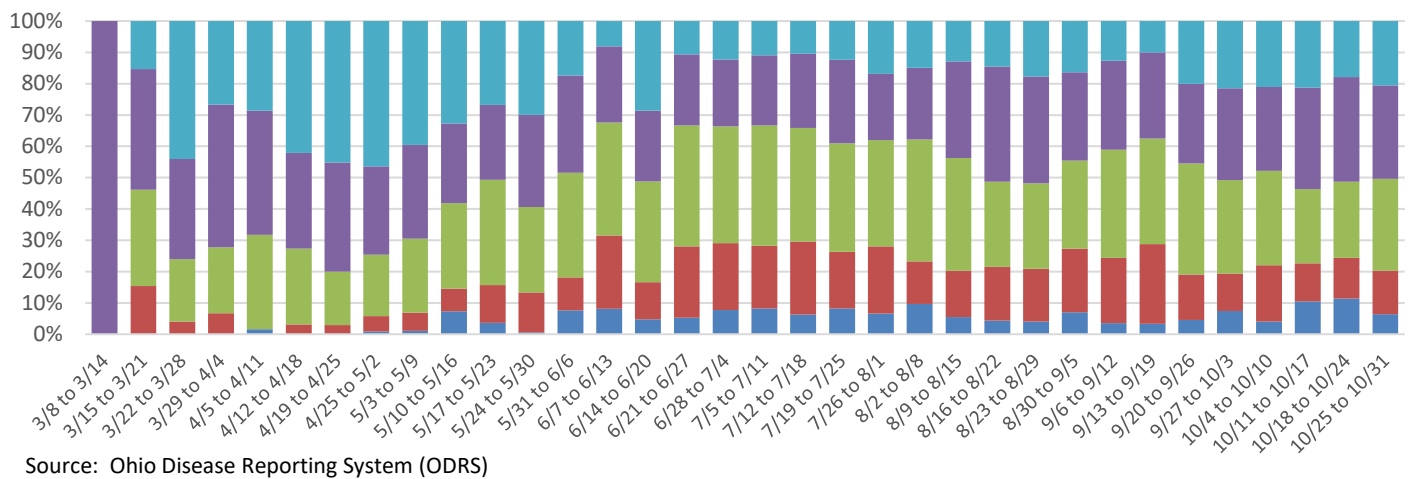


Figure 4. Age distribution of COVID-19 cases by percent in Summit County, by MMWR week



Summit County Hospitalization and Death data:

Due to the progression of the COVID-19 illness, hospitalization data in the previous two to four weeks may be incomplete. After September 15, the 7-day average for hospitalizations due to COVID-19 remained at approximately three admissions per day through the rest of the month (Figure 5). The 7-day average for hospitalizations increased to nearly nine admissions per day on October 22. This increase in the past two weeks is highly concerning and is a result of the widespread community transmission that is occurring in Summit County.

Eleven COVID-19 deaths were reported in July, and twenty-three deaths were reported through August 31 (Figure 6). Sixteen deaths were reported in September, and eighteen so far in October. COVID-19 deaths can occur up to several weeks following the initial diagnosis and test result.

Figure 5. COVID-19 hospitalizations reported in Summit County in 2020, based on admission date, 9/15 to 10/31/2020

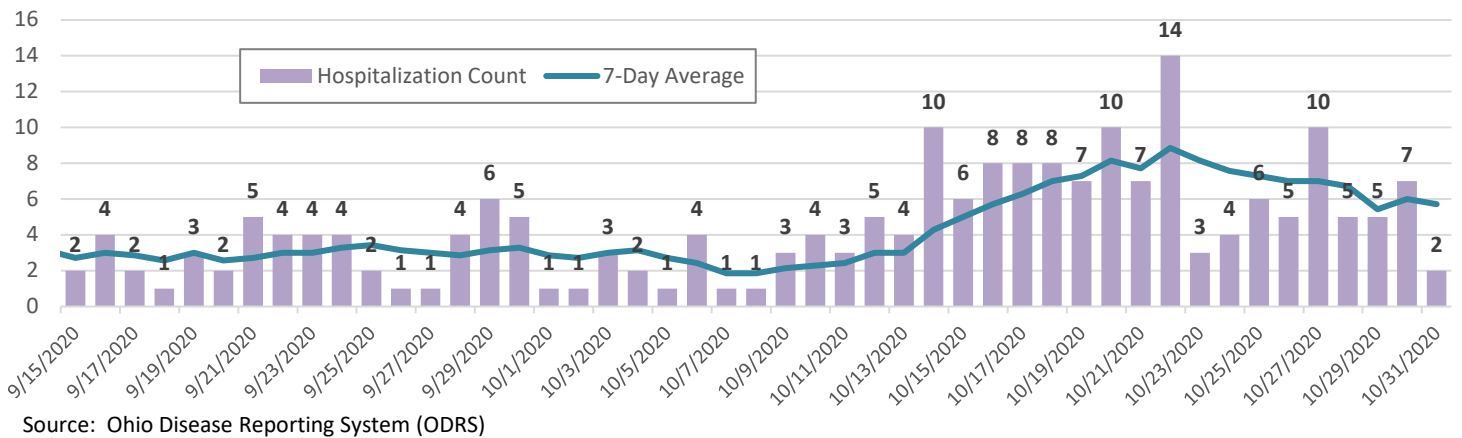
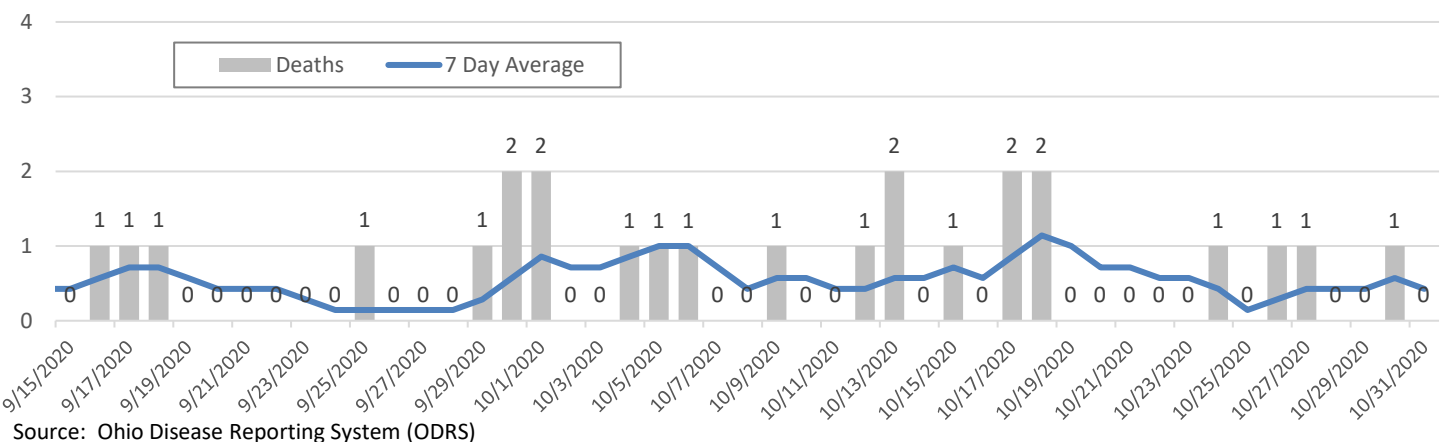


Figure 6. COVID-19 deaths reported in Summit County in 2020, based on date of death, 9/15 to 10/31/2020



Ohio Public Health Alert System (OPHAS) Indicators

OPHAS Indicator 1: New cases per capita (past 14 days)

OPHAS Summary: Flagged if greater than 50 cases per 100,000 residents over the last two weeks. Allows for counties with different population sizes to be appropriately compared.

The population case rates reported by OPHAS has exceeded the threshold of 50 cases per 100,000 residents during the three most recent reporting weeks, at 88.5, 132.7 and 157.1 cases per 100,000, respectively.

| | 1) Population Case Rate (previous 14 days) | | |
|--|--|--------------------|---------------------|
| | 9/30 to 10/13/2020 | 10/7 to 10/20/2020 | 10/14 to 10/27/2020 |
| Number of cases based on date reported: | 656 | 949 | 1129 |
| Population case rate | 121.3 | 175.4 | 208.7 |
| Number of cases based on symptom onset: | 479 | 718 | 850 |
| Population case rate | 88.5 | 132.7 | 157.1 |

Source: Ohio Disease Reporting System (ODRS) and Ohio Public Health Alert System (OPHAS)

OPHAS Indicator 2: Sustained increased in new cases

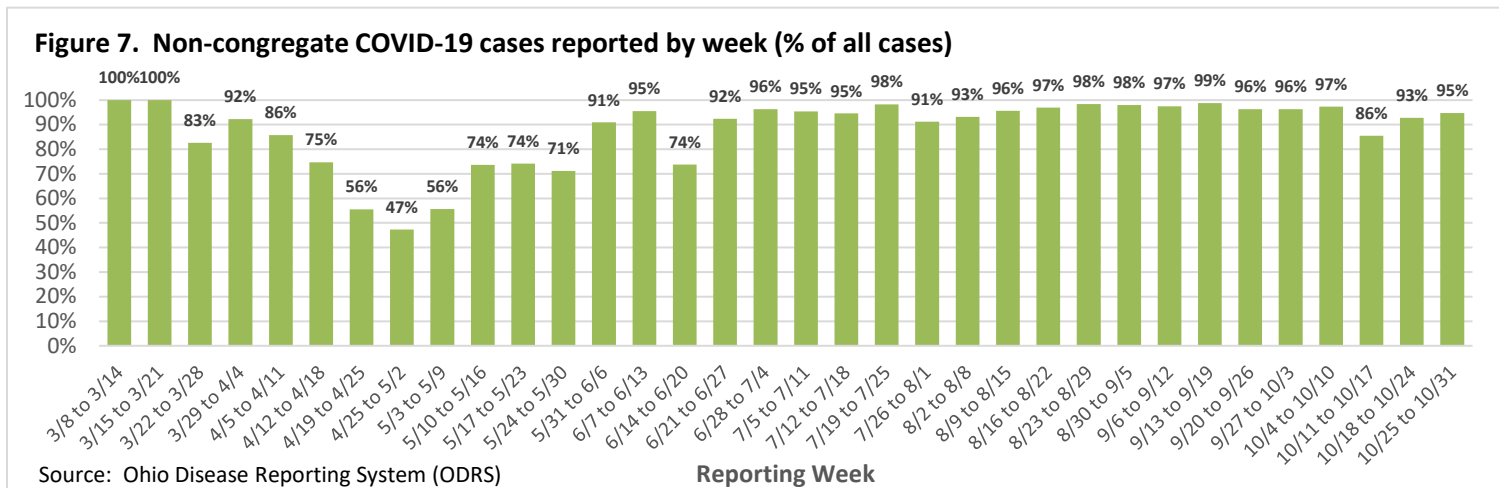
OPHAS Summary: Flagged if increasing trend of at least 5 consecutive days in overall cases by onset date over the last 3 weeks. Reflects disease spread in the population.

New case data are displayed in Figure 1 and Figure 2 (pages 1 and 2), and OPHAS did not report a 5-day sustained increase in the 7-day case average based on onset date from October 7 to 27.

OPHAS Indicator 3: Proportion of cases not in a congregate setting

OPHAS Summary: Flagged if proportion of cases that are not in a congregate setting goes over 50% in at least one of the last 3 weeks. Used as indicator of greater risk of community spread.

Congregate settings are housing situations that may increase the risk of transmission of COVID-19, and include long term care facilities, inpatient rehabilitation facilities, group homes, and prisons or jails. Non-congregate setting calculations on the OPHAS dashboard may be incomplete and is updated each week. Non-congregate setting rates in Figure 7 are calculated by Summit County Public Health and are usually more current. The total percent of COVID-19 cases in a non-congregate setting for all COVID-19 cases in Summit County: 89.6% (3/13 to 10/31/2020), and weekly non-congregate case rates have consistently exceeded 90% since Week 26 (6/21 to 6/27/2020).

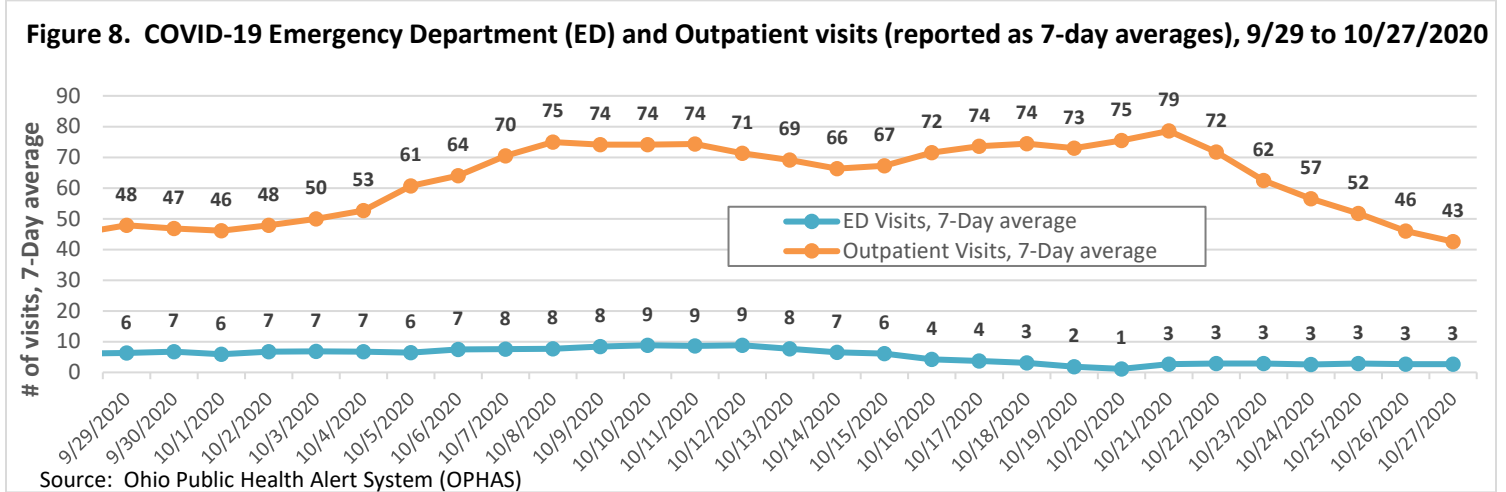


OPHAS Indicator 4: Sustained increase in Emergency Department (ED) visits for COVID-like illness

OPHAS Summary: Flagged if increasing trend of at least 5 consecutive days in the number of visits to the emergency department with COVID-like illness or a diagnosis over the last 3 weeks. Provides information on the health care seeking behavior of the population and a sense of how concerned residents are about their current health status and the virus.

OPHAS Indicator 5: Sustained increase in outpatient visits for COVID-like illness

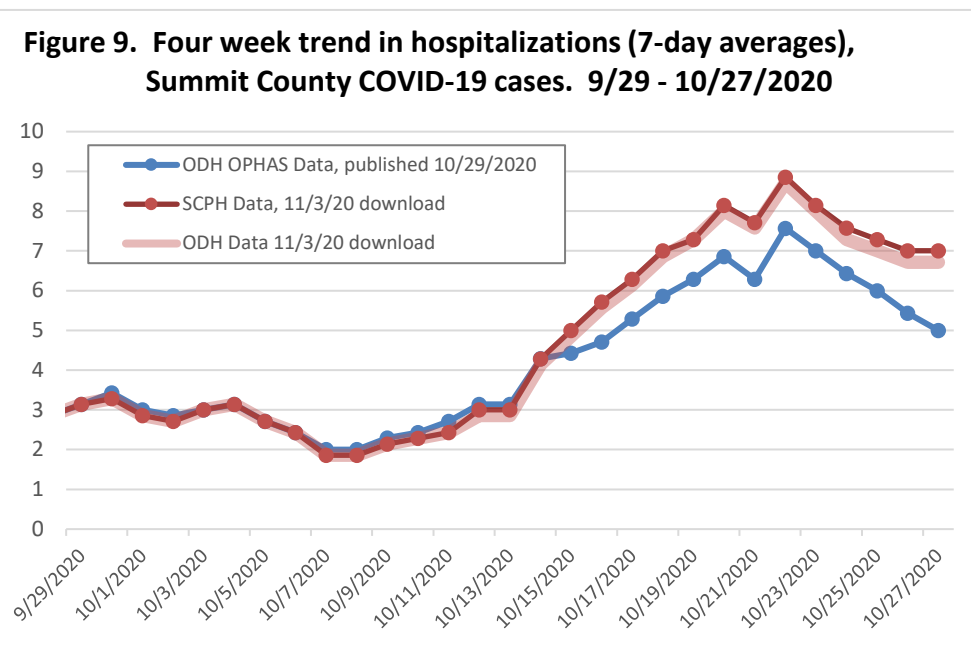
OPHAS Summary: Flagged if increasing trend of at least 5 consecutive days in the number of people going to a health care provider with COVID symptoms who then receive a COVID confirmed or suspected diagnosis over the last 3 weeks. Provides information on the health care seeking behavior of the population and a sense of how concerned residents are about their current health status and the virus.



Data from the OPHAS dashboard indicates that there were no sustained increases in the 7 day averages for ED visits or COVID-19 related outpatient from October y to October 27.

OPHAS Indicator 6: Sustained increase in new COVID hospital admissions

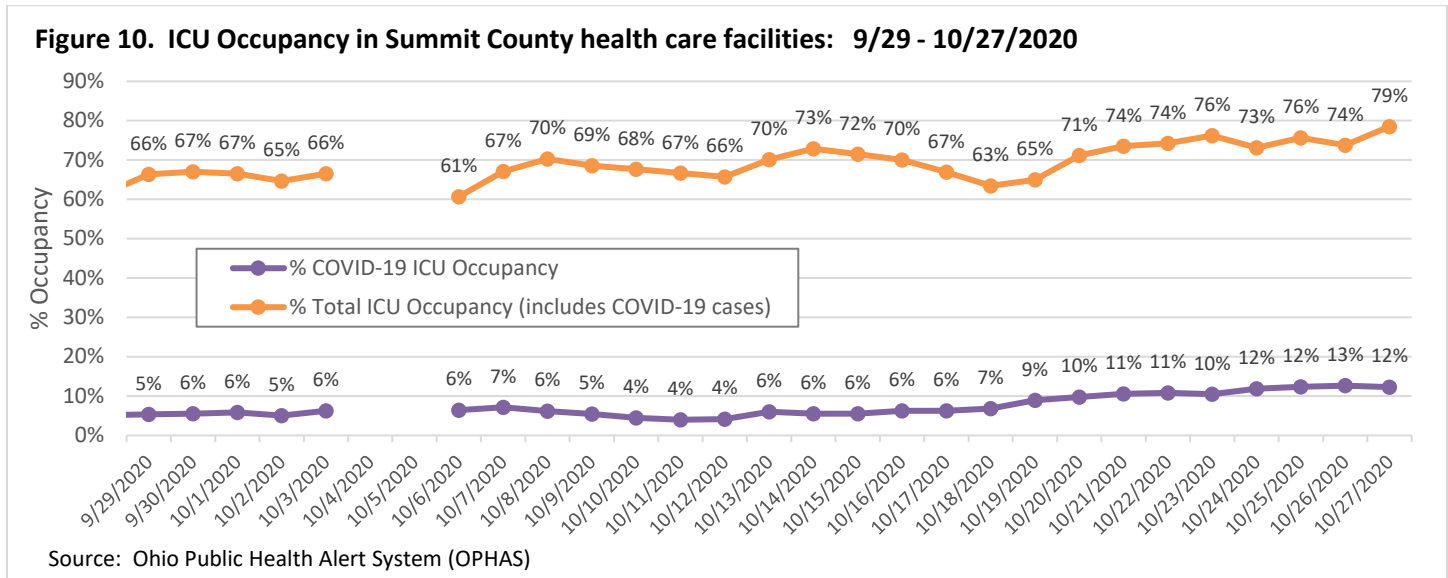
OPHAS Summary: Flagged if increasing trend of at least 5 consecutive days in the number of new hospitalizations due to COVID over the last 3 weeks. Important indicator of hospital burden and disease severity.



For this report, data from three sources were compared: Summit County Public Health data directly from the Ohio Disease Reporting System (ODRS), ODH dashboard data (also from ODRS), and data from the OPHAS dashboard. The SCPH and ODH data are generally consistent, and these sources indicate that hospitalizations due to COVID-19 increased in October, and that the hospitalization data were entered in the time following the latest OPHAS dashboard update on October 27. OPHAS did indicate a sustained increase in hospitalizations from October 13 to October 20.

OPHAS Indicator 7: Intensive Care Unit (ICU) bed occupancy

OPHAS Summary: Flagged if percentage of the occupied ICU beds in each region goes above 80% for at least three days in the last week, AND more than 20% of ICU beds are being used for COVID-19 positive patients for at least three days in the last week. Provides an indication of the capacity available to manage a possible surge of severely ill patients.



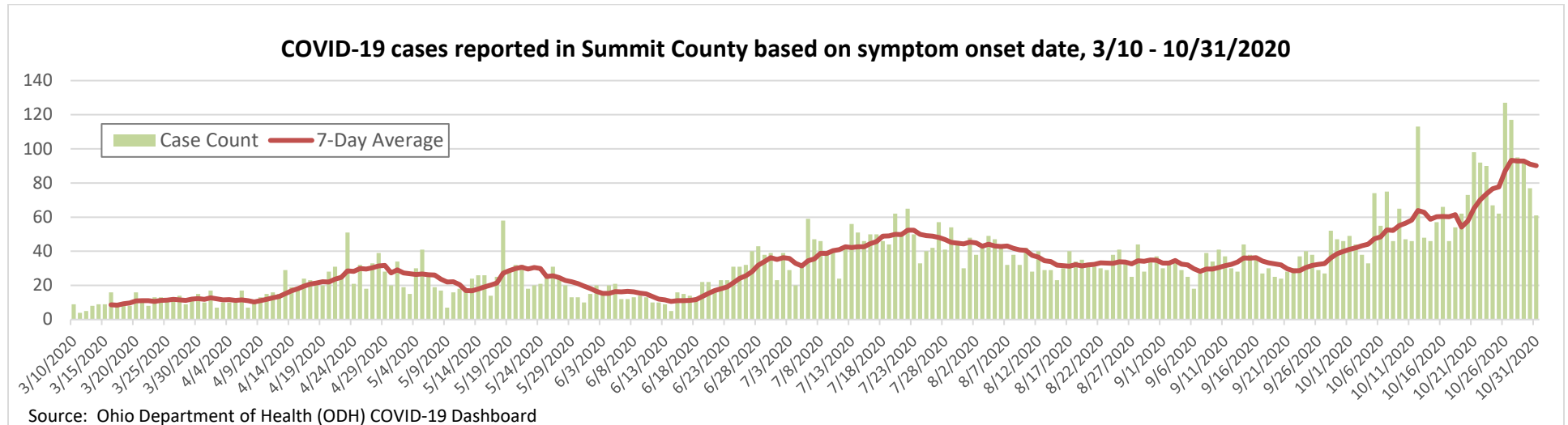
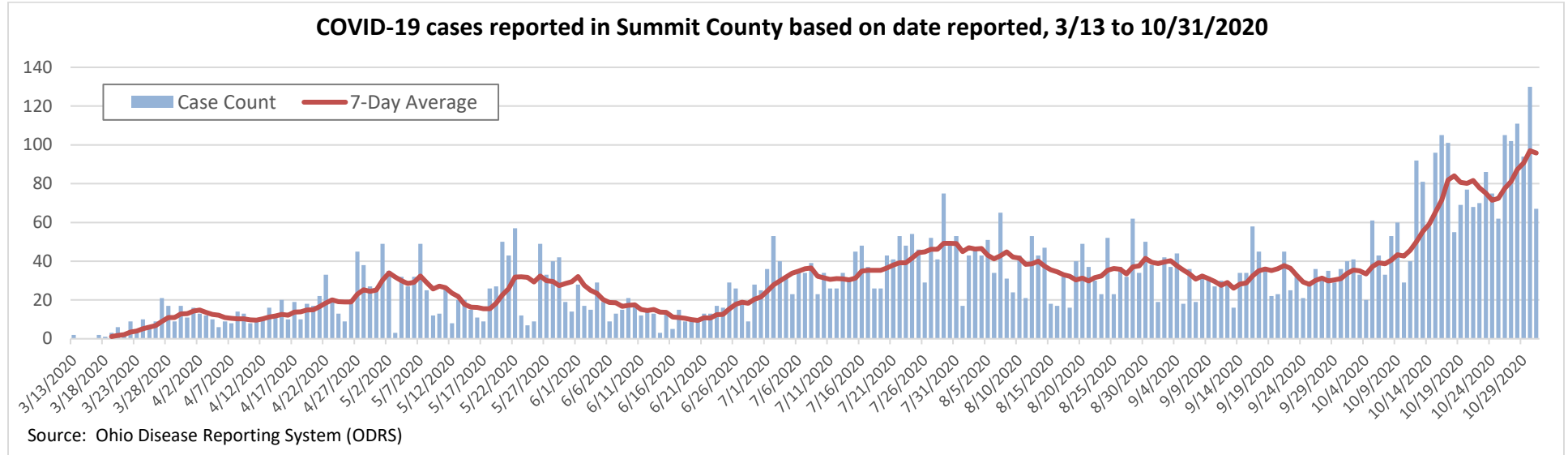
Based on data downloaded from the OPHAS dashboard (Figure 10), total ICU occupancy reported at Summit County facilities have demonstrated an increasing trend from October 18 to October 27. The COVID-19 ICU occupancy rates more than doubled in the past four weeks. Total ICU occupancy rates ranged from 60.7% to 78.5% and the range for COVID-19 ICU occupancy was 4.0% to 12.6%. Neither of these indicators exceeded the CDC thresholds of 80% and 20%, respectively. *Note: The OPHAS data set was missing data for 10/4 and 10/5.*

About this report: Data used in the report was obtained from three sources:

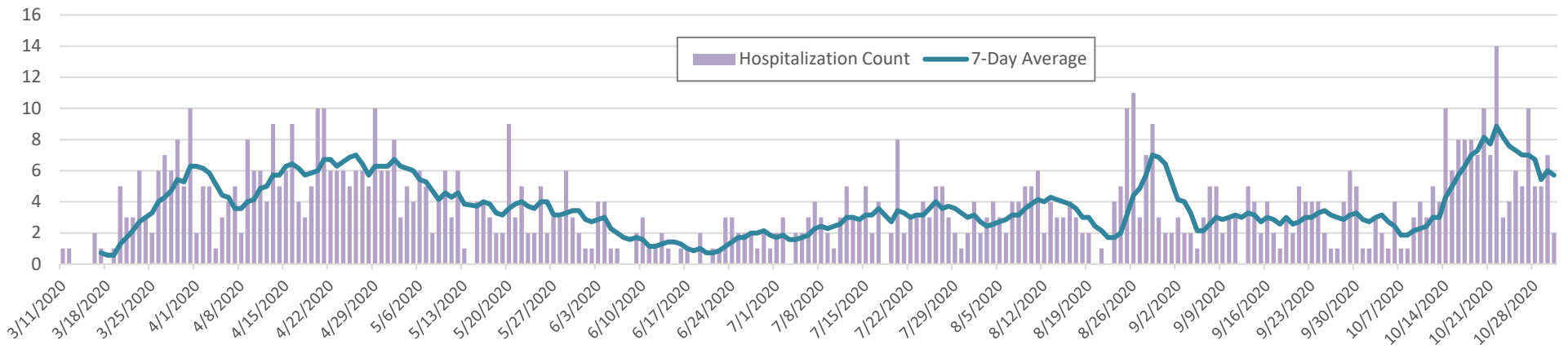
- 1) ODH COVID-19 Data Dashboard:** The State of Ohio COVID-19 Dashboard displays the most recent preliminary data reported to the Ohio Department of Health (ODH) about cases, hospitalizations and deaths in Ohio by selected demographics and county of residence. Data is reported to ODH via the [Ohio Disease Reporting System \(ODRS\)](https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/overview): The ODH data dashboard may be accessed here: <https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/overview>
- 2) Ohio Public Health Alert System (OPHAS) Data Dashboard:** The Public Health Advisory Alert System is a color-coded system designed to supplement existing statewide orders through a data-driven framework to assess the degree of the virus' spread and to engage and empower individuals, businesses, communities, local governments, and others in their response and actions. The OPHAS dashboard is updated every Thursday afternoon and is available here: <https://coronavirus.ohio.gov/wps/portal/gov/covid-19/public-health-advisory-system/>
- 3) Summit County Public Health:** Data reported by Summit County Public Health is acquired from the Ohio Disease Reporting System (ODRS). In addition to this report, a COVID-19 data dashboard is available at: <https://www.scph.org/covid/maps-data> This dashboard is updated daily (Monday-Friday by 4:00 pm).

Numbers may change as updated reports are received. For questions, please contact Joan Hall at the Summit County Public Health Communicable Disease Unit (communicabledisease@schd.org). Report was issued on November 4, 2020.

APPENDIX. Daily COVID-19 case counts (by report date and symptom onset date), hospitalizations and deaths since the start of the pandemic

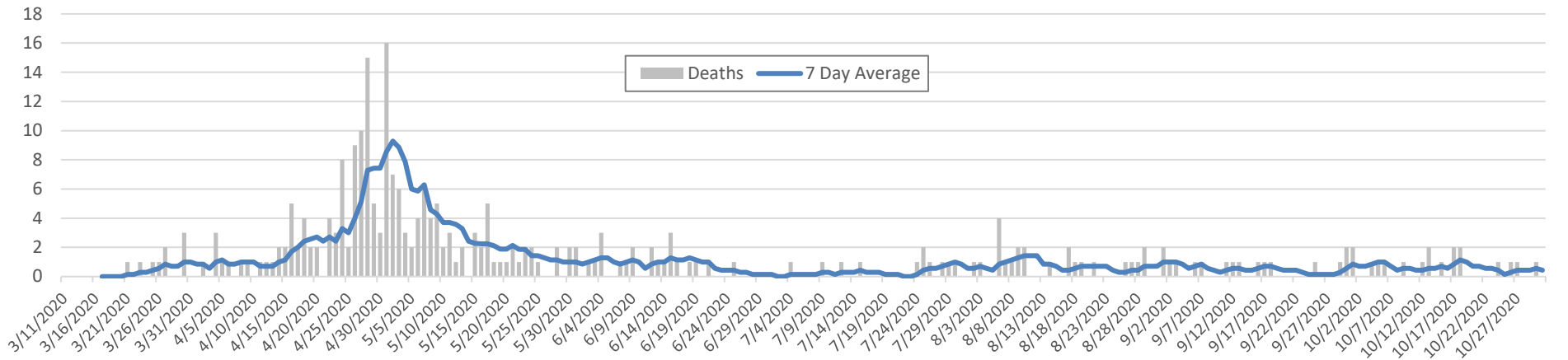


COVID-19 hospitalizations reported in Summit County in 2020, based on admission date, 3/11 to 10/31/2020



Source: Ohio Disease Reporting System (ODRS)

COVID-19 deaths reported in Summit County in 2020, based on date of death, 3/11 to 10/31/2020



Source: Ohio Disease Reporting System (ODRS)