



Butler County General Health District's 78th COVID-19 Update (8/21/2021)

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

Butler County Residents, 2020-21

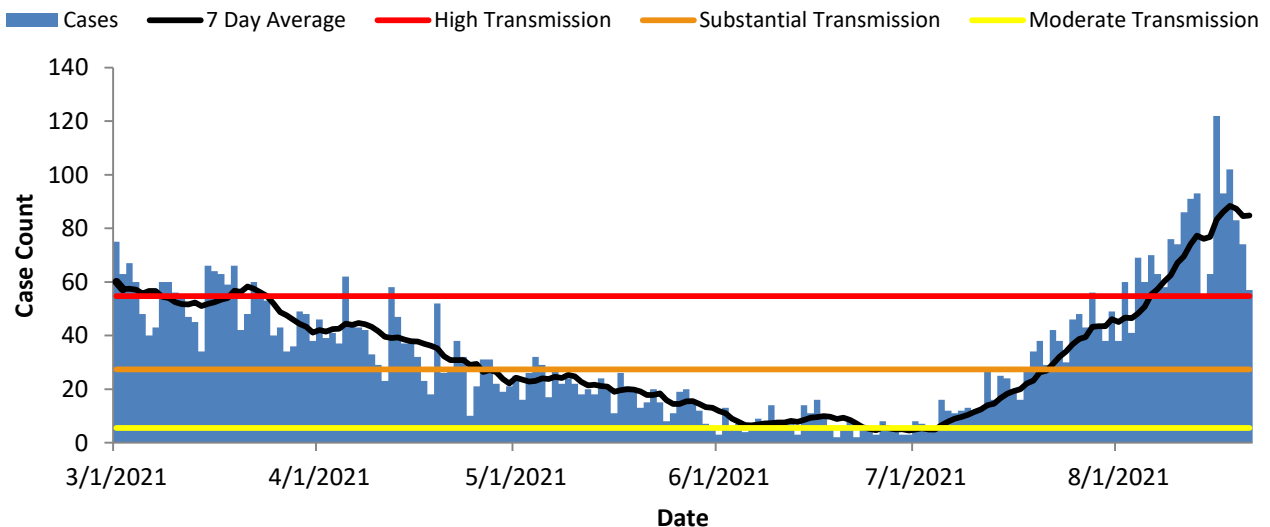
Total # of Cases (8/21):	42,265*
ODH verified Deaths (8/21):	625**
Hospitalizations (8/21):	1,885
ICU admissions (8/21):	168
First Case Reported:	3/11/2020
Last Case Reported (so far):	8/21/2021
Confirmed Cases:	37,286
Probable Cases:	4,979
Age Range:	<1-103
Median Age:	39
Mean Age:	40.5
Incidence (thru 8/21):	11,031.4 per 100,000
Prevalence (thru 8/21):	11.0% of BC population
14-Day Positivity Rate (8/17):	9.3% of tests performed in BC

Table 1: CDC Indicators		
Indicator	Butler County New Cases over 7 days	Status Level According to CDC
Incidence per 100,000 population	155.0 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	9.3% of tests performed in Butler County	Substantial Positivity (8.00%-9.99% of tests)

This report has transitioned from using the target indicators that Governor DeWine and the Ohio Department of Health had previously set to the CDC's Community Transmission Indicators. The CDC has its own data tracker that is accessible at <https://covid.cdc.gov/covid-data-tracker/#datatracker-home>, which gives a good picture of how the nation as a whole is doing. They also have county tracking information, but as CDC mentions, local reports will be more up-to-date and should be considered more definitive.

Cases are rapidly rising in Butler County. Over the month of July, caseloads doubled over two week periods, and we have now met CDC's definition for a **community with high transmission**. The growth rate in August has increased over the growth rate of July. The positivity rate is still substantial and steadily reaching a high rate. Together these measures indicate that there is widespread transmission occurring in Butler County once again. Table 1 and Figure 1 compare Butler County with the new indicators.

Figure 1. Cases by Date of Event Since March 1, 2021



All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 08/24/2021. Due to delays in reporting, the numbers of confirmed and probable cases on all figures 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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**Deaths are now reconciled to the Ohio Department of Health's available data to avoid discrepancies between the state and local numbers. ODH's protocol has changed to avoid reconciliation errors and now only includes those deaths that have been reconciled with Vital statistics and may not match what has been reported to the CDC which are provisional numbers. This is a lagging indicator and will be multiple weeks behind.

Vaccination numbers were collected 1200 EDT 8/24/2021 from ODH COVID-19 Dashboard, Innovate Ohio Platform and the Ohio Hospital Associations Insight Analytic Tool. Vaccinations are considered started on the day an individual receives first dose of a COVID-19 vaccine. Vaccinations are considered completed on the day an individual receives the final recommended dose of a vaccine.

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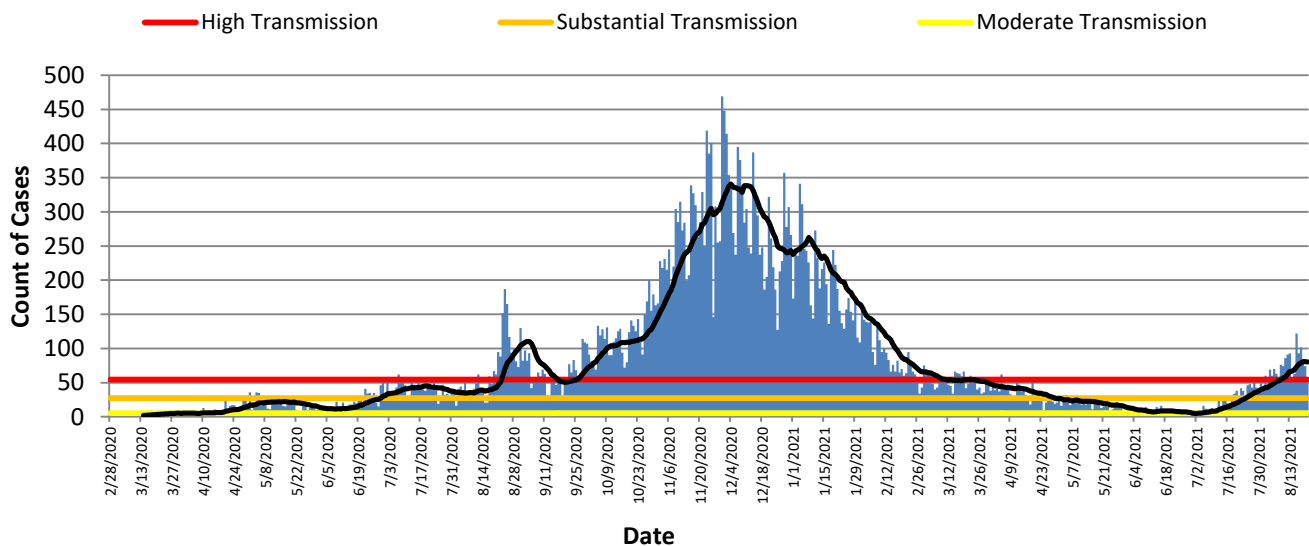
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (8/15-8/21)	Change in cases from previous 7 days (8/8-8/14)	Transmission	% of Cases	
45011	7252	89	2 (↑2.3%)	High	17.2%	
45044	5721	116	15 (↑14.9%)	High	13.5%	
45013	5519	80	5 (↑6.7%)	High	13.1%	
45069	5393	61	-12 (↓16.4%)	High	12.8%	
45014	5232	66	12 (↑22.2%)	High	12.4%	
45056	3702	22	-2 (↓8.3%)	Substantial	8.8%	
45042	2814	40	-4 (↓9.1%)	High	6.7%	
45067	1654	37	18 (↑94.7%)	High	3.9%	
45050	1283	15	2 (↑15.4%)	High	3.0%	
45015	1092	22	7 (↑46.7%)	High	2.6%	
45241	590	12	0 (0%)		1.4%	
45053	346	4	0(0%)	High	0.8%	
45005	267	4	3 (300%)		0.6%	
45064	154	2	2 (NA%)		0.4%	
45246	73	2	2 (NA%)		0.2%	
45062	64	1	-1 (-50%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,109	21		-	2.6%	
Butler County (inclusive)	42,265	594	61(↑11.4%)	High	100%	

Zip-codes that have transmissions not rated have most of their populations outside of Butler County. Zip-codes with too few cases have been removed for privacy concerns.

New Cases are determined by "Date of Event" which is when the case was ill/test was collected. CDC determines new cases by "Date of Report".

Table 2 shows the zip-code level data that is new for this week. **All but one** zip-code in Butler County now meets the conditions set to be declared a **community of high transmission**. Since individuals are rarely constrained by the relatively small borders of a zip-code in their day-to-day lives, these transmission indicators are for information only. For practical guidance, follow the county level indicators. Figure 2 shows the recent surge in cases and new indicator levels in context of the entire pandemic.

Figure 2. Reported Cases of COVID-19 by Date of Event 2020-2021*



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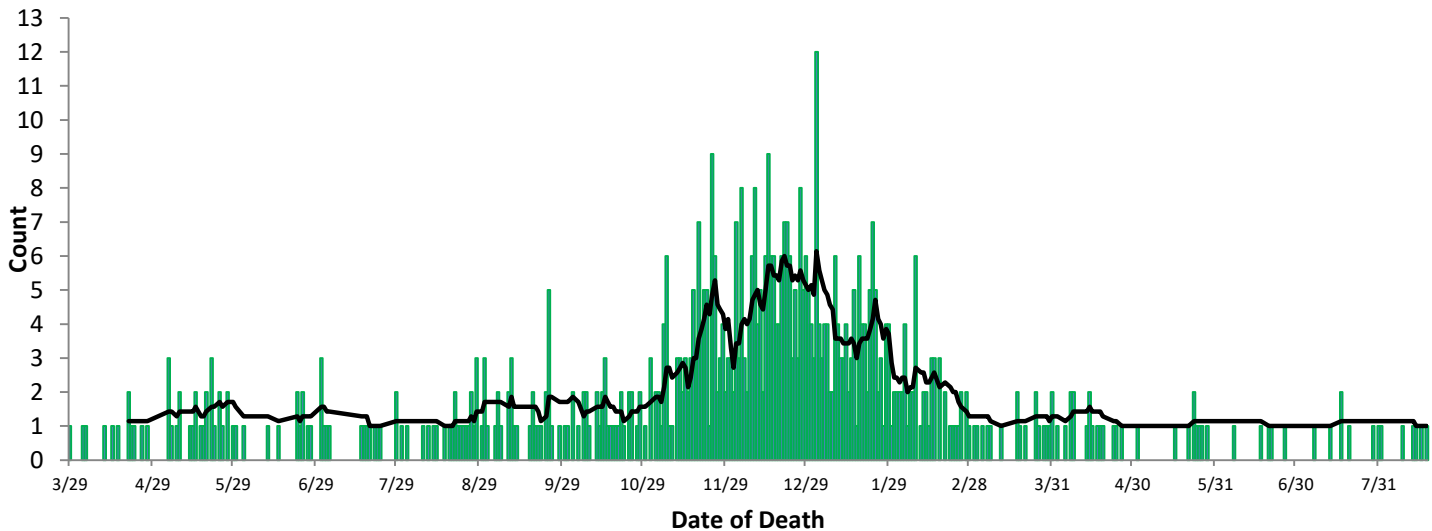
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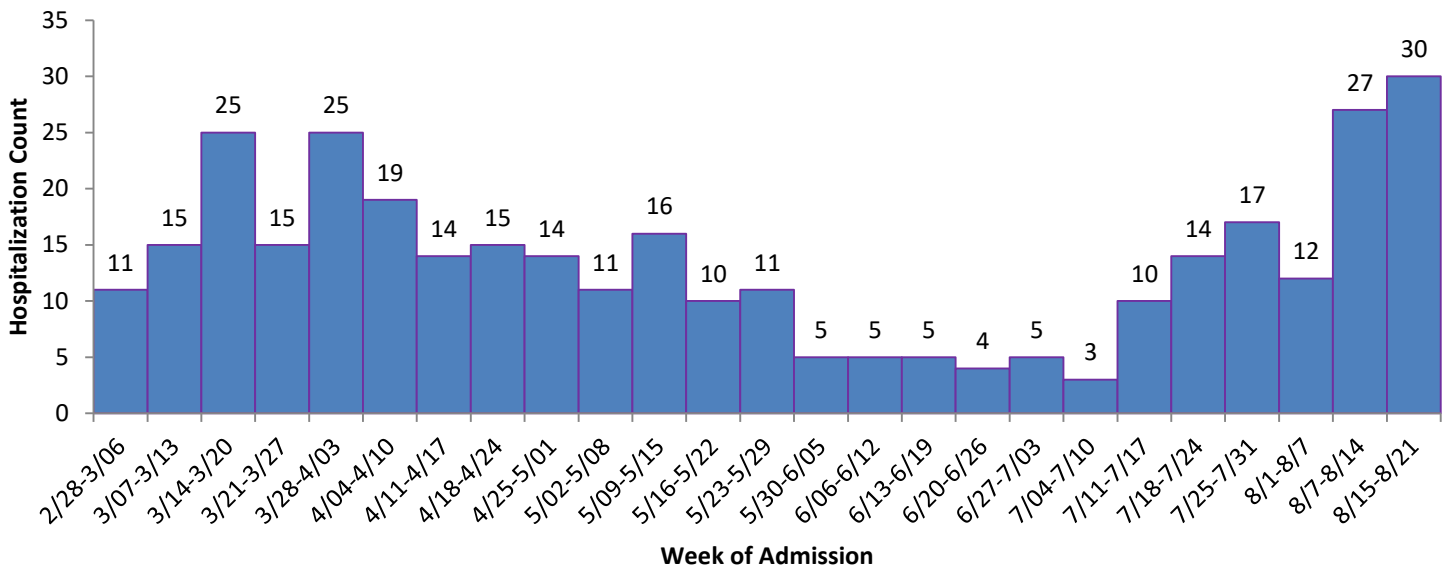
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



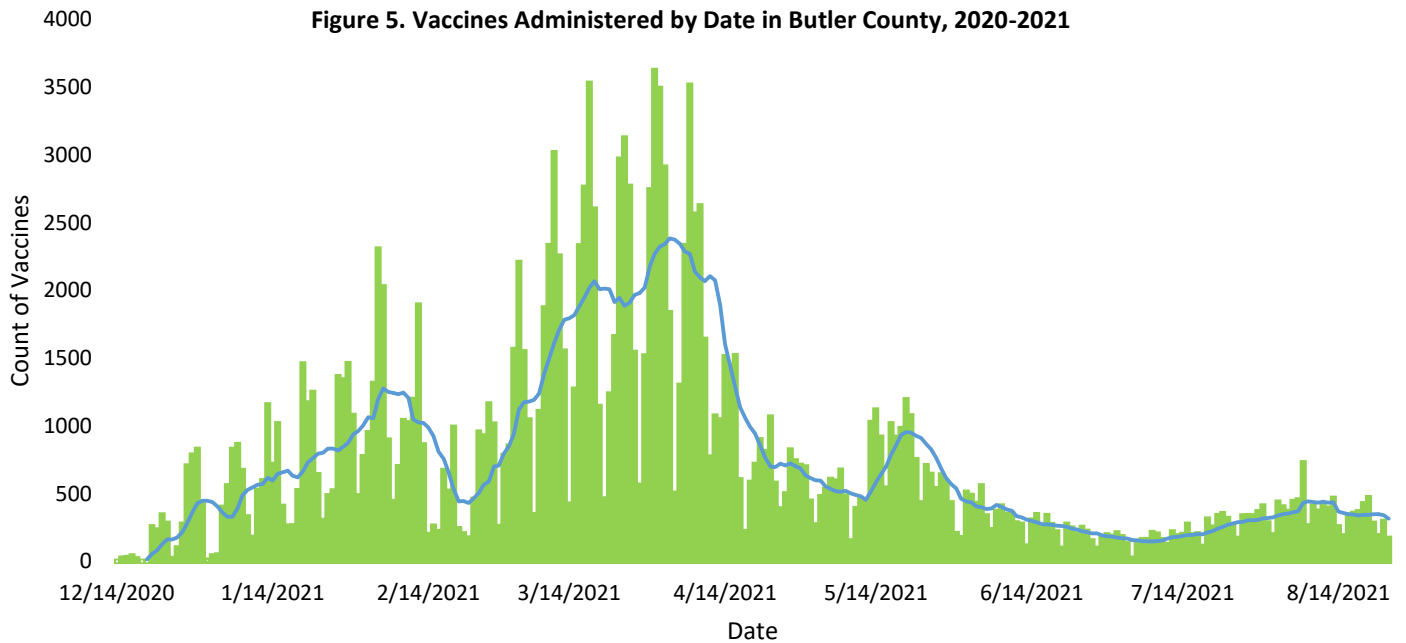
Figures 3 and 4 show severe case outcomes. These are both lagging indicators since it typically takes time for a case to succumb to COVID and well over a month for a COVID-19 death to be verified. Deaths remain stable, and we are hopeful that they remain so due to the high vaccination rate amongst at-risk aged populations (Table 3). However more deaths are occurring closer together. As for hospitalizations, Butler County residents are being subjected to hospitalization at high rates once again. Additionally, unvaccinated individuals are making up the majority of hospitalizations and are driving the age of hospitalizations down. Our new weekly hospitalization numbers are doubling those figures from June. We are seeing hospitalization figures that look more like the winter surge.

Figure 4. COVID-19 Hospitalizations of Butler County Residents by Week since the first week of March 2021



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 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.



After an initial surge in vaccine demand seen in late winter and through the spring, demand dramatically dropped off. However, beginning in late July, coinciding with the oncoming school year and rise in cases associated with the Delta variant, there was a slight, but steady increase.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations						
Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 8/10/2021	Count of People Vaccinated (%) as of 8/24/2021	Count of People Vaccinated During the last two weeks	Percent Change from 8/10 to 8/24	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	4,888 (32.4%)	5,310 (35.2%)	422	8.6%	9,759
15-17	15,838 (5%)	5,885 (37.2%)	6,291 (39.7%)	406	6.9%	9,547
18-20	20,735 (6%)	7,531 (36.3%)	7,895 (38.1%)	364	4.8%	12,840
21-24	23,864 (7%)	9,531 (39.9%)	9,939 (41.6%)	408	4.3%	13,925
25-34	48,008 (15%)	20,276 (42.2%)	21,140 (44.0%)	864	4.3%	26,868
35-44	45,659 (14%)	25,425 (55.7%)	26,359 (57.7%)	934	3.7%	19,300
45-54	46,344 (14%)	27,615 (59.6%)	28,364 (61.2%)	749	2.7%	17,980
55-64	48,369 (15%)	34,554 (71.4%)	35,089 (72.5%)	535	1.5%	13,280
65-74	36,132 (11%)	29,040 (80.4%)	29,339 (81.2%)	299	1.0%	6,793
75-84	17,318 (5%)	13,917 (80.4%)	14,042 (81.8%)	125	0.9%	3,276
85+	6,788 (2%)	5,574 (82.1%)	5,635 (83.0%)	61	1.1%	1,153

#Population estimates from the Ohio Hospital Association and are from December 2020.

Important and of note, the imminent return of the school year seems to be associated with a dramatic uptick in vaccine uptake among school age children. The 12-14 age group saw the largest increase at 8.6% over the last two weeks followed by the 15-17 year age group with 6.9%.

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Table 4. Cases Under Age of 17 by Zip –Code 07/01-08/07

Zip Code	Cases since July 1st	Cases per 100,000 since July 1
45011	81	413.6
45069	70	564.0
45044	65	436.0
45014	48	490.8
45013	44	372.2
45050	21	792.8
45042	21	435.6
45056	15	501.2
45015	14	437.9
45241	-^	
45067	14	339.0
45053	-^	843.2
45246	-^	

^Cases are below threshold to release. Population estimates from Ohio Hospital Association 2019

Table 4 shows cases that are ages 17 or younger by zip-code. The importance of this table is to demonstrate that though numbers remain small on an absolute level, relative to the population size it has actually been very high spread since the middle of summer. Were we to classify ages by zip-code in the same manner of the CDC’s definition, every zip-code in Butler County would be considered “high” transmission for school-age students. Within the recent weeks cases in this age have nearly doubled the amount of cases seen in July. It is true that children are less likely to develop severe illness, but they are not immune and they can spread it to others. **There have been pediatric hospitalizations of COVID-19 in Butler County.** Since the beginning of the pandemic, **pediatric hospitalizations of COVID-19 have nearly doubled the 5-year average of pediatric hospitalizations of influenza in Butler County.** That figure is not including children hospitalized with MIS-C associated with COVID-19, just those with acute COVID-19 infection.

The best ways to prevent your child from contracting COVID-19 and risking severe outcomes is to get your child vaccinated as soon as they are old enough, and to follow precautions such as wearing masks indoors- especially for those who are too young or cannot otherwise get the COVID-19 vaccination. Table 5 shows the vaccination rates among zip-codes by eligible populations.

Table 5. Percent of the Eligible Population Vaccinated by Zip Code

Zip Code	Vaccinated	Not Vaccinated Estimate	Vaccinated %
45056	11,186	15,241	42%
45067	5,552	7,405	43%
45064	1,241	1,642	43%
45015	4,661	5,178	47%
45042	11,227	11,283	50%
45053	1,495	1,312	53%
45013	24,782	20,547	55%
45011	35,747	28,265	56%
45044	25,060	19,327	56%
45050	5,850	3,344	64%
45014	24,779	14,084	64%
45069	33,006	11,909	73%

In zip codes 45056, 45067 and 45064, 42% of the eligible population (12+) have been vaccinated (at least one dose).

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